

**CHANGE**

U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

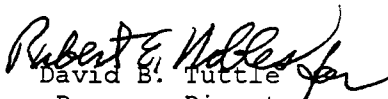
6430.2 CHG. 38

4/7/97

SUBJ: MINUTES OF DOD/FAA JOINT RADAR PLANNING GROUP (JRPg)

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1. **PURPOSE.** This change transmits Attachment 80 to Order 6430.2, Minutes of DOD/FAA Joint Radar Planning Group (JRPg). This Attachment is the minutes of JRPg meeting number 80 conducted November 19-21, 1996.
2. **DISTRIBUTION.** This change is distributed to the branch level within Airway Facilities Service; Assistant Administrator for Civil Aviation Security; Office of Communications, Navigation and Surveillance Systems; Air Traffic Service; Office of System Architecture and Program Evaluation, in Washington; to the branch level in the regional Airway Facilities and Air Traffic divisions; to the branch level at the FAA Logistics Center; and to supervisory level at all air route traffic control centers and all radar sites.
3. **FILING INSTRUCTIONS.** File this attachment immediately following Attachment 79 of this order.

  
David B. Tuttle  
Program Director  
for NAS Operations

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Distribution: A-W (AF/CS/ND/AT/SD) -3; A-X (AF/AT) -3  
A-FAF-3 (SUPV); A-FAT-1 (SUPV);

Initiated By AOP-300



**MINUTES OF DOD/FAA**

**JOINT RADAR PLANNING GROUP (JRPG) #80**

**NOVEMBER 19-21, 1997**

**DAYTONA BEACH, FLORDIA**

**MINUTES OF DOD/FAA**

**JOINT RADAR PLANNING GROUP (JRPG) #80**

**NOVEMBER 19-21, 1997**

**DAYTONA BEACH, FLORDIA**



# TABLE OF CONTENTS

<u>1.</u>	<u>ADMINISTRATIVE ITEMS</u>	<u>PAGE</u>
a.	1996 JRPG Formal Meeting	
b.	JRPG #80 Attendees	
c.	DOD/FAA Address List	
d..	FAA Regional Coordinators	
e.	USAF JRPG Sector Coordinators	
f.	Logistics Subgroup	
g.	Radar Network Subgroup	
h.	Radar Analysis Software	
i.	Communications Subgroup	
j.	1997 JRPG Formal Meeting	
<u>2.</u>	<u>JRPG GENERAL</u>	
a.	Introduction	
b.	Coordination	
c.	Coordination/Problem Solving Chain	
d.	Briefings	
<u>3.</u>	<u>RADAR EVALUATION/INSPECTION/ ANALYSIS/</u> <u>CERTIFICATION</u>	
a.	Technical inspection handbook (6040.6E)	
b.	Inter-Agency ground Inspection Manual Revision	

	<u>PAGE</u>
4. <u>MAJOR PROGRAMS</u>	
a.    Letter Of Agreement for Key West 3D Radar	4
b.    CI-13 Remote Rekeying (Formally FIRRS)	5
c.    New MOA NAT-914, to Replace NAT-614 in the ARSR-4 Timeframe	6
d.    Radome Replacement Program	6
e.    Long Rang Radar in NAS Architecture	6
f.    Request for Budget Assistance with the ARSR-4 Program	6
5. <u>JOINT USE SITES</u>	
a.    Site configuration	7
b.    US Navy Request for FAA Radar Data	7
c.    Hawaii	7
d.    Alaska	7
e.    US Navy Request for Jedburg, SC. Radar Data	8
f.    USAF Request for Jedburg , SC. Radar Data	8
g.    US Navy Request FAA to Maintain ARSR-4 at two sites	8
h.    USAF Request for Fort Fisher, NC. and Jedburg, SC. Radar Data	9
6. <u>EQUIPMENT</u>	
a.    Common Digitizer (CD-2)	9
b.    Height Finder Radar (HFR)	9
c.    Radios	9

d.	FPS-117 3D Radar	<u>PAGE</u> 11
7.	<u>LOGISTICS</u>	
a.	Transfer of Lake Charles, LA. FPS-91 Items to FAA	11
8.	<u>COMMUNICATIONS</u>	
a.	TELCO Room configuration Control	11
b.	Tactical Secure Voice	12
9.	<u>Security</u>	
a.	Physical Security at ARSR-4 Sites	12
10.	<u>Operations</u>	
a.	NEADS-ANG Transition	12
b.	Electronic Installation (EI) Team Access to Joint Use Site With Reduced Watch	12
c.	Guantanamo Bay Cuba Radar	13
d.	Encryption at Additional JSS Sites	13
e.	Call Back Requirements	13
f.	ARSR-4 Frequency Loss/Redesign Requirements	14
	LIST OF ATTACHMENTS	17

d.	FPS-117 3D Radar	<u>PAGE</u> 11
7.	<u>LOGISTICS</u>	
a.	Transfer of Lake Charles, LA. FPS-91 Items to FAA	11
8.	<u>COMMUNICATIONS</u>	
a.	TELCO Room configuration Control	11
b.	Tactical Secure Voice	12
9.	<u>Security</u>	
a.	Physical Security at ARSR-4 Sites	12
10.	<u>Operations</u>	
a.	NEADS-ANG Transition	12
b.	Electronic Installation (EI) Team Access to Joint Use Site With Reduced Watch	12
c.	Guantanamo Bay Cuba Radar	13
d.	Encryption at Additional JSS Sites	13
e.	Call Back Requirements	13
f.	ARSR-4 Frequency Loss/Redesign Requirements	14
	LIST OF ATTACHMENTS	17

## 1. ADMINISTRATIVE ITEMS.

a. The Federal Aviation Administration (FAA) hosted the 80th formal meeting of the Joint Radar Planning Group (JRPg) in Daytona Beach Florida, during the week of November 18, 1996.

b. JRPg #80 list of attendees is at Attachment 1.

c. The current DOD/FAA address list is at Attachment 2.

d. An updated list of FAA Regional JRPg Coordinators is at Attachment 3.

e. A list of DOD/JRPg Coordinators is at Attachment 4.

f. The Logistics Subgroup was convened. Cochairmen are Mr. Richard Jorgensen, SM-ALC/LHEP for DOD, and Mr. Randy Means, AML-610 for FAA. The logistics subgroup briefed the JRPg meeting and did not provide a written report.

g. The Radar Network Subgroup was not convened. Cochairmen are Mr. Rob Paul, ATR-110 for FAA and SMSgt Bob Silverio, interim DOD cochairman during the absence of Maj. Debra Skelton.

h. The Radar Analysis Software Subgroup (RASS) was not convened. Mr. Lanny Clelland, 84 RADES, is the DOD Cochairman and Mr. John Gonzales, FAA/AOS-520, is the FAA Cochairman.

i. The Communications Subgroup has had several working sessions to continue working toward resolution of various TELCO room issues and spacing for future equipment installations such as FAATSAT. The results of their actions are reflected under Communications, Section 8, item b. Cochairmen are Mr. Ed Wormley, ACC/SCCD, for DOD and Mr. Sam Krishnan, AOP-400 for FAA.

j. The dates for the next JRPg are:

In-House JRPg	October 21-23, 1997
Formal JRPg	December 9-11, 1997*

\*The JRPg formal meeting for 1997 will be hosted by USAF.

The following items document discussions during the JRPg meeting. Items preceded by references were discussed in previous JRPg meetings. The first two digits in each reference indicate the meeting number. The alphanumeric after the hyphen indicate the paragraph in those particular JRPg minutes. Those items without reference are new items

4/7/97

discussed by the JRPG. Several action items are closed, yet some minor actions remain to be completed. Offices of Primary Responsibility (OPRs) assigned are as indicated and are responsible for ensuring remaining actions are completed.

## 2. JRPG GENERAL

a. Introduction. Mr. John G. Mauck, FAA/AOP-300 introduced Mr. Stanley Rivers, FAA/AAF-1, who officially opened the 80th formal meeting of the Joint Radar Planning Group (JRPG). Mr. Kenneth Kingsmore, ACC/XPP-JRPG, lead the introductions of all personnel present.

b. Coordination. The JRPG cochairmen reemphasized the need for coordination, communication, and cooperation between all personnel associated with the joint use program. Attendees were reminded that JRPG policy dictates any action which affects a joint use site must be coordinated with all concerned. Also, all were reminded that any intent to change/modify/alter joint use site configurations/operating procedures, etc., must be formally submitted to their respective counterparts and/or headquarters.

c. Coordination/Problem Solving Chain. Updated FAA/USAF/Navy JRPG coordination chain and problem solving flow diagrams were briefed. Briefing copies provided to attendees and are not included.

d. Briefings. The following briefings were provided during JRPG #80.

(1) Frequency Spectrum Reallocation. FAA/ASR-1 provided information relative to the recent transfer of federal spectrum to the private sector. This transfer impacts the Joint Surveillance System (JSS), since a portion of the frequencies involved in the transfer included a 10Mhz range of frequencies that are in the Long Range Radar surveillance allocations. The loss of 10Mhz directly impacted the ARSR-4 due to the limitations placed on its frequency hopping capability. Additional impacts may be felt as more frequencies are reallocated to the private sector.

(2) JRPG Background Briefing. The DOD JRPG Cochairman presented a briefing which provided the history of this program, its congressional mandate, scope, and organizational structure. Also depicted in this briefing were the geographical locations of the joint use sites, with a breakout of those which are military only. The subject briefing is at Attachment 5.

(3) Air Sovereignty Briefing. NORAD/J3WS provided an overview briefing of the NORAD mission including air defense, air sovereignty, and command and control. This briefing identified JSS as the backbone of the Air Defense System by providing a comprehensive radar and communications network. Briefing is at Attachment 6.

(4) FARR Status Briefing. AND-440 provided a status briefing of the ARSR-4 contract. Each FAA regional coordinator gave a short status of the sites with their region. Since the status changes rapidly, a copy of the briefings will not be included in these minutes.

(5) Review of Last Year's Joint Technical Inspections (JTIs)/Maintenance Quality Feedback. There were 10 joint technical inspections performed this year. First Air Force presented a review of these inspections. Overall radar, beacon, common digitizer, and Mode IV processors were in very good condition and provided reliable service to support the DOD and FAA missions with the exception of a high number of radio maintenance deficiencies found in the Western Air Defense Sector (WADS). Key performance parameters for the USAF radios were found to be out of tolerance, radio equipment was dirty at some locations, and at some sites the USAF Technical Orders (TOs) did not have the latest changes or were missing. There were some concerns that FAA is not meeting 60 day suspense on processing the reports. Briefing is at Attachment 7.

(6) FY 95 Radar Evaluation and JSS Involvement Briefing. The 84 RADES presented an overview of the tasks they performed over the past year in support of the JSS sites. The briefing provided details of evaluations performed, site surveys completed, participation in ARSR-4 contractor testing and base line results at ARSR-4 sites. Briefing is at Attachment 8.

(7) Periodic Radar Evaluation Program (PREP). The 84 RADES presented a Periodic Radar Evaluation Program briefing. The Radar Data Interface System (RDIS) has been developed and installed at each of the Air Force Sector Air Operations Centers. Its primary purpose is to enhance the Air Force's ability to assess the performance of its radar systems through the present PREP program. They provided an overview of sampling techniques, sampling results, and performance measurements. A copy of the briefing was provided to all attendees at the meeting and is not included.

(8) FAA Telecommunications Satellite Program: FAA/AOP-400/500 provided a briefing of the FAA Telecommunications Satellite Program (FAATSAT). The briefing provided a description of the program, the operational services that can be provided, and proposed installations at ARSR-4 sites. The FAATSAT program office will be conducting site surveys at several ARSR-4 sites in preparation for installation. Copies of the briefing were provided to all attendees at the meeting and are not included.

### 3. RADAR EVALUATION / INSPECTION / ANALYSIS / CERTIFICATION.

a. Item 79-3a, 78-3a, 77-3.a, 76-3.a, 75-3.a, 74-3.c, 72-3.c, 71-3.b(3), 70-2.d(4), 69-2.f(5): Technical Inspection Handbook (6040.6E). Order 6040.6E has been revised, and issued Oct. 1, 1995. The revised order defines the objectives of the technical evaluation program. The JTI Task Force held a meeting in September to finalize the Key

4/7/97

Performance Parameter count and checklist. Specific guidance for conducting Joint Technical Inspections (JTIs) are outlined in Appendix 2 of the order. JTIs will remain on a three-year cycle, final reports are due within 60 days of completion of the inspection, old forms are eliminated, and key performance parameter count are included. Briefing is at Attachment 9.

OPR: FAA/AOP-200  
1 AF/SCL  
FAA JRPG Coordinators  
DOD JRPG Coordinators  
CLOSED

b. Item. 79-3b, 78-3b, 77-3b, 76-3.b, 75-3.c, 74-3.e(2), 73-3.e, 72-3.e, 71-3.d, 70-2.f, 69-2.h, 68-2.a, 67-3.bb: Inter-Agency Ground Inspection Manual Revision. A new draft order has been prepared and is currently being circulated for review.

OPR: FAA/AOP-300  
OPEN

c. Item. 79-3c, 78-3c, 77-3.d: Radar Analysis Software Subgroup (RASS). The working group comprised of FAA and 84 RADES representatives have developed new radar analysis software. Two briefings were presented by the RASS on plans for use in analyzing radar data. One system is the En route Radar Data Intelligent Tool (E-RIT) which is designed to record radar beacon data. The E-RIT system was developed to meet FAA needs which differ from those required for USAF. The second system is the Radar Data Interface System which provides 24 hour recording and assessment capability of all radar sites data received by the Air Force Sector Air Operations Centers. Future actions of the RASS will be briefed on a periodic basis as developments warrant. Copies of these briefings were provided at the meeting and are not included.

OPR: 84 RADES/DO  
FAA/AOS-500  
CLOSED

#### 4. MAJOR PROGRAMS.

a. Item. 79-4.a, 78-4.a(2), 77-4.b, 76-4.b(1), 75-4.b, 74-4.b(1), 73-4.b, 72-4.b, 71-4.b: Letter of Agreement (LOA) for Key West 3D Radar. A joint DOD/FAA Letter of Agreement (LOA) has been prepared for the continuance of FAA maintenance of the Key West radar site after the installation of the ARSR-4. This agreement is complete and will be signed by January, 1997.

OPR: FAA/ASO-472  
NAVAIRSYSCOM/5515  
SEADS/SC  
CLOSED



## b. CI-13 Remote Rekeying (Formally know as FIRRS)

(1) Item. CI-13 Remote Rekeying Program: The FAA Air Force Radar Replacement program (FARR) Icelandic Remote Rekeying System (FIRRS) name has been formally changed to FARR CI-13. The FARR CI-13 program was briefed by ESC/TNN. CI-13 is planned to be installed at the 3 Sector Air Operations Centers (SAOC), 30 JSS sites and 8 GATR. The equipment will be field tested in the late spring or early summer of 1997 between SEADS/SAOC as the control site and two radar sites. The radar sites will be Tyndall AFB, FL and Lake Charles, LA. (See related items below and at 10.d.) Excerpts of the briefing are at Attachment 10.

OPR: ESC/TNN

OPEN

(2) Item. FARR CI-13 Operational Concept: 1AF/DOYR was tasked to develop and coordinate a CI-13 operational concept. The operations community is to complete formal approval for three additional CI-13 sites (Bootlegger Ridge, MT; Finley, ND; and Remsen, NY) along the northern tier. Funding and hardware for the additional sites have not been identified.

OPR HQ ACC/DOY/DRC  
NORAD N/J3W  
1AF/DOYR

OPEN

(3) Item. 79-4.b, 78-4.c, 77-4.d, 76-4.d: CI-13 Maintenance Concept. A new maintenance concept is being developed and will be coordinated within the FAA/USAF. Funding for maintenance training has been identified

OPR: HQ ACC/SCCJ  
HQ ESC/TNN

OPEN

(4) Item. CI-13 Installation Sequence: The 1AF/DOYR and FAA/AOP-300 was tasked to prepare a installation sequence for implementation of the CI-13. The SAOC equipment needs to be installed in conjunction with the first radar site within the associated control area. GATR sites will be installed after all JSS sites are completed. A draft sequence was discussed at the meeting.

OPR 1AF/DOYR  
FAA/AOP-300

OPEN

4/7/97

c. Item. 79-4.c, 78-4.d, 77-4.e, 76-4.e, 75-4.d, 74-4.d: New MOA, NAT -914, to Replace NAT-614 in the ARSR-4 Timeframe. NAT-914 is to be implemented on a site by site basis per Article XIII. Upon full implementation of the ARSR-4, NAT-914 replaces NAT-614. JSS sites not modernized with ARSR-4 are to be addressed in a separate appendix to the NAT-914 agreement. Copies of NAT-914 have been distributed to JRPG members.

OPR HQ ACC/XPP-JRPG  
FAA/AOP-300-JRPG

CLOSED

d. Item. 79-4.d, 78-4.e: Radome Replacement Program. The FAA presented a briefing which gave an update of the Radome Replacement program. The majority of the radomes have been replaced with the remainder expected to be completed by January 1998.

OPR: FAA/AND-440

OPEN

e. Item. Long Range Radar in NAS Architecture: FAA/ASD-140 provided a briefing of the National Air Space (NAS) Architecture which provides a "blueprint" for changing the future of the NAS. Particular emphasis was placed on the role of long range radars services in the NAS. The 1993 decision memorandum which advocated the shut down of primary long range radars in the NAS is in the process of being rescinded. A new memorandum will be signed rescinding the 1993 memo and formally establishing a working group to define the enroute radar requirements for the future. FAA/ASD-100 was requested to formally notify SAF/AQK of FAA's revised position on use of primary long range radars in the NAS. Copies of the briefing were distributed at the meeting and are not included. Copies of the published NAS Architecture are available through FAA/ASD-100.

OPR: FAA/ASD-100

OPEN

f. Item. Request for Budget Assistance with the ARSR-4 Program: FAA/AND-440 (ARSR-440 Program Office) verbally requested the assistance of the Air Force members of the JRPG in obtaining additional USAF funds to complete the ARSR-4 Program.

OPR: FAA/AND-441

OPEN

## 5. JOINT USE SITES.

a. Item. 79-5.a, 78-5.a: Site Configurations. An updated list of joint use site configurations is at Attachment 11. An updated survey of data ties/services provided at contiguous US joint use sites is at Attachment 12. Future configuration charts will be included in Section 1, Administrative Items.

OPR: HQ ACC/XPP-JRPG  
FAA/AOP-300-JRPG

CLOSED

b. Item. 79-5.b, 78-5.b: USN Request for FAA Radar Data. US Navy requested radar data from Rainbow Ridge, Mill Valley and, Paso Robles, CA (via Oakland, CA ARTCC). The US Navy funded and installed Codex 3600 modems and have provided land line connectivity. A MOA is awaiting signature by FAA/AWP.

OPR: USN/NISE East Charleston Code-313 SW  
FAA/AWP-473.9

CLOSED

### c. Hawaii.

(1) Item. 79-5.c, 78-5c(1), 77-5.c(1), 76-5.d(1), 75-5.d(2), 74-5.d(2), 73-5.d(2), 72-5.d(2), 71-5.d(2), 70-2.n(2), 69-2.p(5): MT Kokee Beacon Improvements. Contract for engine generators was awarded Feb. 95. Equipment will be maintained by Pacific Missile Firing Range (US Navy). Project has been completed.

OPR: FAA/HIPAFS

CLOSED

### d. Alaska.

(1) Item. 79-5.d (1), 78-5d(3): Joint Surveillance System Alaska (JSSA). A joint committee with representatives from the Alaskan Region FAA and 11th AF prepared a draft Joint Alaska Radar System management agreement. It is proposed that this agreement become an Appendix to NAT 914. The draft Alaskan JSSA Appendix to NAT-914 has completed review in FAA headquarters and returned to the region to be prepared in final form. This document will be an Interagency Agreement to be signed by FAA and USAF action offices with contracting officers from both parties completing the agreement.

OPR: FAA/AAL-460  
11 AF/DOY

OPEN

4/7/97

e. Item 79-5.e, 78-5.f, 77-5.9, 76-5.h: US Navy Request for Jedburg SC. Radar Data. FAA and the SEADS concur with the US Navy's request for data from Jedburg. The Navy equipment has been installed and is operational. Comments were incorporated into the final LOA. The LOA has been signed and became effective Aug. 12, 1996.

OPR: NISE East, Charleston  
FAA/ASO-472

CLOSED

f. Item 79-5.f, 78-5.g, 77-5.h: USAF Request for Jedburg, SC Radar Data. The USAF thanked the FAA for their support in obtaining the Jedburg radar data. The USAF unit using the Jedburg to Shaw AFB data connection has completed it's mission. The connection has been terminated and all USAF equipment removed.

OPR: FAA/ASO-472  
ACC/SCYA

CLOSED

g. US Navy Request FAA to Maintain ARSR-4 at two sites.

(1). Item 79-5.g(1): Guantanamo Bay Cuba. The US Navy verbally request the FAA maintain the ARSR-4 at Guantanamo Bay Cuba. This will assure continuity of the radar and eliminate the need for the Navy to set up the logistics and training support for a limited number of sites. The JRPG endorses the proposal as an effort that would be cost beneficial to the tax payer. The Navy will prepare a formal request to the FAA requesting maintenance of the Guantanamo Bay radar. No progress to date. The FAA will complete installation through baseline evaluation.

OPR: USN/NRaDS San Diego  
FAA/ASO-472

OPEN

(2). Item 79-5.g(2): San Clemente California. The US Navy request the FAA maintain the ARSR-4 at San Clemente CA. This will better assure continuity of the radar and eliminate the needs for the Navy to set up the logistics and training support for a limited number of sites. The JRPG endorses the proposal as an effort that would be cost beneficial to the tax payer. The Interagency agreement has been completed and is awaiting final signatures anticipated to be signed by April 97.

OPR: USN/FACSFAC/NRaD  
FAA/AWP-473.9

OPEN

(h) Item: USAF Request for Fort Fisher NC and Jedburt SC Radar Data. ACC/DOF requested Jacksonville ARTCC provide Ft. Fisher and Jedburt radar data to Shaw AFB, SC. A letter of agreement has been developed, signed and implemented. Funding has been transferred to the FAA. Shaw AFB is currently receiving the radar data from Jedburt. Data will be provided from Ft. Fisher when the new ARSR-4 becomes operational - programmed for the summer 1997.

OPR: ACC/DOF  
HQ ACC/XPP-JRPG  
CLOSED

6. EQUIPMENT.

a. Common Digitizer - 2 (CD-2)

(1) Item. 79-6.a(1), 78-6.a(1), 77-6.a(1), 76-6.a(2), 75-6.a(2), 74-6.a(3): Remote Control and Status Feedback (RACI). The modification developed by FAA is now called the RACI modification. Eight CD-2 sites have been running for over a year with the RACI modification installed without major problems. The RACI package with the MTI modification is scheduled to be released to the CD-2 sites in March 1997.

OPR: FAA/AOS-500  
84 RADES  
OPEN

b. Height Finder Radars (HFR).

(1) Item. 79-6.b(1), 78-6.b(1), 77-6.b(1), 76-6.c(2), 75-6.c(2): HFR Removal/Radio Relocation. The ACC/XPP-JRPG provided a status of JSS Height Finder Radar (HFR) removal. There has been no change to the HFR removal program. There are seven sites that will require tower removal after the completion of the ARSR-4 installation. Per the Project Support Agreement (PSA), Ft. Lonesome is programmed to be removed with FARR funds. HQ ACC/SCCJ will identify funds for removal of the remaining towers. Once the funds are identified and a HFR tower is released for removal, the 38 EIS/DRC will schedule a team to accomplish the work.

OPR: 38 EIG/DRC  
HQ ACC/SCCJ  
OPEN

c. Radios.

(1) Item. 79-6.c(1), 78-6.c(2), 77-6.c(2), 76-6.e(3), 75-6.e(3), 74-6.g(3), 73-6.g(5): Secure UHF Radios. This item has been moved to Section 8, Communications, and will be tracked under item 8.b. Tactical Secure Voice.

4/7/97

(2) Item. 79-6.c(2), 78-6.c(3), 77-6.c(5), 75-6.e(6), 74-6.g(6): Fort Fisher MOA. The draft MOA has been coordinated and comments incorporated. The MOA was signed and distributed on 11/18/96.

OPR: FAA/ASO-472

CLOSED

(3) Item. 79-6.c(3), 78-6.c(4), 77-6.c(6), 76-6.e(7), 75-6.e(7): AN/GRC-171 Training.

(a) AN/GRC-171 HAVE QUICK Training. AFZ-100 needs to provide guidance on the process for requesting AN/GRC-171 HAVE QUICK training. FAA System Maintenance Office (SMO) managers need to identify their AN/GRC-171 HAVE QUICK training requirements. This training is currently provided by USAF at Keesler AFB MS.

OPR: FAA/AFZ-100

OPEN

(b) AN/GRC-171 Training. AFZ-100 needs to provide guidance on the process for requesting AN/GRC-171 training. FAA site managers need to identify their AN/GRC-171 training requirements. USAF may need to reestablish classes at Keesler AFB MS providing sufficient requirements are identified.

OPR: FAA/AFZ-100

OPEN

(4) Item 79-6.c(5): UHF Radios Test and Monitor Panel Replacement. The redesigned Test and Monitor Panel installation is basically complete except for the Northern Tier sites. The GATR sites have not been funded.

OPR: 38 EIG/EICR  
38 EIS/DRC  
HQ ACC/SCCD

OPEN

d. FPS-117 3D Radar

(1). Item 79-6.d: Replacement of MT Kokee, HI. Radar. PACAF/DOCO provided a status briefing on the project to replace the existing radar, beacon, and height finder with a FPS-117. The Mt. Kokee AN FPS-117 radar is scheduled to be fully operational in February 1997.

OPR: PACAF/DOCO  
ACC/XPP-JRPG  
FAA AOP-300-JRPG  
HIPAFS  
HIANG  
COMNAVAIRSYCOM/PMA-2132  
USN/PMRF  
AWP-473.9  
AWP-510  
OPEN

7. LOGISTICS.

a. Item. 78-7.b: Transfer of Lake Charles LA FPS-91 Items to FAA. The FAA Logistics Center has requested specific items of the Lake Charles, LA. FPS-91 radar system for their inventory. JRPG Minutes #74, published in July 1991 - approved the transfer of the entire radar to the FAA after decommission. Subject transfer was to be of no cost to the USAF. Recent discussions have surfaced that only portions of the radar were desired by the FAA for transfer. There was an additional request from USAF SM-ALC to recover the arctic radar tower and move it to Hill AFB, UT. The Logistics Subgroup agreed in principle that the FAA Log Center could have the salvageable parts from the FPS-91 radar and that the Air Force Logistic Center could obtain the tower. FAA/AND-440 was tasked to conduct a survey of the site to determine final resolution. The survey report will be published separately.

OPR: FAA/AML-610  
FAA/AND-440  
SM-ACC/LHEP  
OPEN

8. COMMUNICATIONS.

a. Item. 79-8b, 78-8.d: TELCO Room Configuration Control. The JRPG Communication Subgroup developed a standard TELCO room equipment configuration with design assistance from the 38 EIG/EIC. The Communications Subgroup Cochairmen provided a briefing on the status of the standard TELCO room layout. At locations with non-standard TELCO rooms, i.e., size, location, etc., the configuration will be established as required and approved by the JRPG Communications Subgroup Cochairmen. The

4/7/97

Telco room configuration final report is available from the Communications Subgroup. The JRPG Cochairmen have accepted the recommendations of the Communication Subgroup. A copy of the Communications subgroup memorandum to the JRPG Cochairmen is included with the briefing in Attachment 13.

OPR: FAA/AOP-400  
ACC/SCCJ  
38 EIG/EICR

OPEN

b. Item. Tactical Secure Voice: This item was previously tracked under Section 6. Secure UHF Radios. UHF radio encryption provides secure voice capability for single channel GAG radios. Phase I, prototype testing, and Phase II installation and testing of production model in the SEADS, have been completed. Phase III will involve the development, installation and testing of Full Communications Service Encryption (FCSE) at the Western Air Defense (WADS), Northeastern Air Defense Sector (NEADS), and Alaska. Installation at Alaska is on-going and estimated completion date is December 1996. The other 2 CONUS sectors remain unfunded.

OPR: 1 AF/SC

OPEN

## 9. SECURITY.

a. Item. Physical security at ARSR-4 Sites: FAA/AND-300 JRPG provided a briefing of recent changes and memos clarifying FAA policy concerning security requirements at ARSR-4 sites having Crypto requirements. A copy of these memorandums are included in Attachment 14.

## 10. OPERATIONS.

a. Item. 79-10c, 78-10.b: NEADS - ANG Transition. The NEADS is now an Air National Guard (ANG) unit. Active duty personnel have been reassigned. There should be no noticeable changes as to how they will conduct business.

OPR: NEADS

CLOSED

b. Item. 78-10.f, 78-10.f: Electronics Installation (EI) Team Access to Joint Use Sites with Reduced Watch. There have been access problems for EI teams at joint use sites with reduced watch. The teams will continue providing advanced notice to the FAA. Request the FAA site coordinator and the USAF EI team chief agree to team access. The EI team should not attempt to visit the site without proper coordination. If there is any



problem with access and/or access times, request the site coordinator and EI team chief notify the 38 EIG/EIC and the FAA JRPG regional coordinator for resolution.

OPR: FAA Regional Coordinators  
38 EIG/EIC OPEN

c. 79-10.h, 78-10.i: Guantanamo Bay Cuba Radar. FAA Southern Region formally requested the Guantanamo Bay Cuba ARSR-4 become a data tie site. The US Navy agreed to share the data. The FAA Southern Region will begin development of an MOA. Both JRPG cochairmen agreed in principal to this request. Navy has verbally requested the FAA consider maintaining the ARSR-4 and will be formally making this request. See related item in section 5, Joint Use Sites.

OPR: COMNAVAIR/2132  
FAA/ASO-472 OPEN

d. Item. Encryption at Additional JSS sites: The Air Force verbally stated a requirement for encryption capability at three additional ARSR-4 sites. The sites were identified as Bootlegger, Ridge MT; Finley, ND; and Remsen, NY. USAF is in the process of validating and approving this requirement. When approved the requirement will be forwarded to the DOD JRPG Cochairman. ACC/SCCJ was tasked to lead a team to determine the resources required to support the additional encryption equipment at these three sites. Four areas of concern were identified, they are; funding, radio availability, need for additional CI-13 equipment, and exploration of other alternatives.

OPR: NORAD/J3WS  
ACC/DOYG  
1AF/DOYR  
ACC/SCCJ OPEN

e. Item: Callback Requirement: NAT-914 states " during those periods that a certifying technician is not available at the site, 2-hour call back procedures will be provided...." This generated considerable discussion concerning the intent of the statement and restoration times. Does this mean that a technician is required on site within the 2 hours or does it require the action to restore be initiated within 2 hours? USAF has routinely accepted the restoration criteria established by FAA Air Traffic control. ATR-110 was requested to clarify FAA Air Traffic controls requirements for restoration of equipment at ARSR-4 sites.

OPR: FAA/ATR-100  
FAA/AOP-300 OPEN

4/7/97

f. Item: ARSR-4 Frequency Loss/Redesign Requirements: Due to the Omnibus Budget Reconciliation Act of 1993, the Government lost 10 MHz (1390-1400 MHz) of the frequency spectrum used by the ARSR-4. This frequency band must be vacated in 1998. Loss of the 10 MHz will impacted the frequency hopping capability of the ARSR-4 required by the Air Force. This frequency hopping capability was purchased and provided as part of the ARSR-4 contract. To maintain the full capability of the radar will require redesigning/reprogramming. The USAF Operations organizations must provide the JRPG Cochairmen and the ARSR-4 Program Office with their unified requirements on this matter. Funding has not been dedicated and will be required for this project.

OPR: NORAD/J3WS  
ACC/DOYG  
1 AF/DOYR

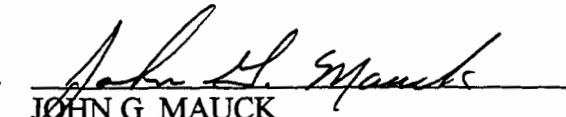
OPEN

4/7/97

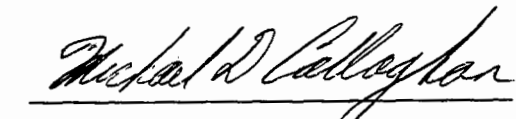
6430.2 CHG 38  
Attachment 80

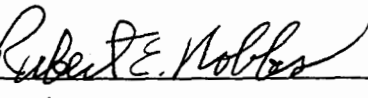
11. These minutes are directive upon the USAF after authentication and directive upon the FAA after signature of the FAA change order.

  
KENNETH H. KINGSMORE  
DOB JRPG Cochairman

  
JOHN G. MAUCK  
FAA JRPG Cochairman

AUTHENTICATION

  
MICHAEL D. CALLAGHAN, Colonel, USAF  
Chief, Programs Division  
Directorate of Plans and Programs

  
David B. Tuttle,  
Program Director  
for NAS Operations







4/7/97

6430.2 CHG 38  
Attachment 80

## **LIST OF ATTENDEES**

### **ATTACHMENT 1**





**FORMAL MEETING  
19-21 NOV**

RANK	LAST NAME	FIRST NAME	ORGINIZATION	COMMERCIAL PHONE NUMBER	DSN/FTS PHONE NUMBER	FAX NUMBER	E-MAIL
Civ	Mauck	John G.	FAA-AOP-300	(202) 267-8414		(202) 267-5632	john.mauck@dot.faa.gov
Civ	Kingsmore	Kenneth	HQ ACC JRPQ	(757) 764-4392	574-4392	(757) 764-4366	kingsmok@hqaccxp.langley.af.mil
MSgt	Benefiel	Diana	HQ ACC JRPQ	(757) 764-7159	574-7159	(757) 764-4366	benefied@hqaccxp.langley.af.mil
Civ	Allen	Jopseph	84 RADES/TOA	(801) 777-6366	777-6366	(801) 777-3268	allenjo@rades.hill.af.mil
MSgt	Allen	Joseph	SEADS/SCLQ	(904) 283-5473	523-5473	523-5411	tadams@af1.ang.af.mil
Civ	Allred	Dan	HQ 38EIG/EICR	(405) 734-5626	884-5326		
Civ	Atkins	Robert	SM-ALC-LHE	(916) 843-0752	633-0752	633-6329	atkins.robert@sma1.mcclellan.af.mil
Civ	Baker	Dave	ACC/SCCJ	(757) 764-4438	574-4438		BAKERDW@HQACC.LANGLEY.MIL
Civ	Barber	Preston	FAA/AOS-234	(405) 954-5700		(405) 954-8371	
Civ	Beaulieu	Howard	HQ ESC/TH	(617) 377-7292	478-7292	(617) 377-9567	beaulieuh@hanscom.af.mil
Capt	Blount	Timothy	1 AF/SCXP	(904) 283-3768	523-3768	523-0604	tblount@af1.ang.af.mil
Civ	Bonacci	Peter	NEADS	(315) 334-6644	587-6644		pbonacci@neads.ang.af.mil
Civ	Booker	Carl	84 RADES/TO	(801) 777-2047	777-2047	(801) 777-3268	booker@rades.hill.af.mil
Civ	Braxton	Marilyn	38 EIS/DRC	(405) 734-5154	884-5154		marilyn.braxton@mailgate.eiw38.af.mil
Lt Col	Breunig	Jeff	HQ FAA/AFR-3	(202) 257-7478		(202) 267-5935	jeff.brunig@faa.dot.gov
Civ	Butler	William	ANS-500/NISC	(202) 646-5681		(202) 646-5480	
Col	Callaghan	Michael	ACC/XPP	(757) 764-5914	574-5914		calagham@hqaccxp.langley.af.mil
Civ	Carr	Bill	ANE-471	(617) 238-7474		(617) 238-7459	william.carr@faa.dot.gov
Civ	Carter	Walt	FAA/ASO-458	(404) 305-6299		(404) 305-5499	
Civ	Chapman	Harry	NAVASR/AYEX	(703) 412-8966		(703) 412-8972	
Civ	Chestnut	Joe	FACSFAC	(619) 545-2142	735-2142	(619) 545-5598	TECHDIR@score.com
Civ	Clelland	Lanny	84 RADES/TO	(801) 777-2035	777-2035	(801) 777-3268	clellanl@rades.hill.af.mil
Civ	Clemens	William	SEADS/SCLQ	(904) 283-5481	523-5481	(904) 283-5234	clemensb@af1.ang.af.mil
Civ	Constable	Richard	NEADS/SCLQJ	(315) 334-6143	587-6143		constabr@neads.ang.af.mil
Civ	Coury	Joseph	AOP-400/RMS	(202) 863-7353		(202) 863-7333	joe.coury@faa.dot.gov
Civ	Cox	Thomas	ANNMAT/ZSE-5	(206) 351-3550		(206) 351-3586	tom.cox@faa.dot.gov
Civ	Daniel	Gene	FAA-Hawaii SMO	(808) 394-4000		(808) 394-4099	
Civ	Devore	Rollo	AHS/400-HISC	(202) 646-2108		(202) 646-5480	
Civ	Eby	Lee	WADS/SCL	(206) 984-4758	984-4758		ebylee@wads.mcchord.af.mil
Civ	Everett	Patricia	AGL-459.13 NISC	(847) 294-8418		(847) 294-8172	everett_patricia@mail.hq.faa.gov
Civ	Francone	James	FAA/AND-440	(202) 267-8698		(817) 222-4895	james.francone@faa.dot.gov
Civ	Geldbaugh	Joe	38 EIS/DRC	(405) 734-7728	884-7728	(405) 734-7712	Joseph.Geldbaugh@mailgate.eiw38.af.mil
Civ	Grady	Jack	ESC/TNF	(617) 377-9507			gradyj@tango-vs1.hanscom.af.mil
Civ	Grant	John	US Customs/DAICC	(904) 656-8090		(909) 656-8070	

**FORMAL MEETING  
19-21 NOV**

Civ	Harned	Owen	AOP-400/RMS	(202) 863-8251		(202) 863-7333	owen.harned@faa.dot.gov
Civ	Harwood	Victoria	FAA/AND-440	(202) 267-5460			
Civ	Hayes	Charles	ESC/TNN	(617) 377-4380	478-4380	(617) 377-9567	hayesc@hanscom.af.mil
MSgt	Healis	Steven	SEADS	(904) 228-3546	523-5461	523-5411	shealis@af1.ang.af.mil
Civ	Healy	Peter	FAA/ASW/RAPM	(817) 222-4224		(817) 222-5980	peter.j.healy@faa.dot.gov
Lt	Heigle	James	ESC/TNN	(617)377-9518	478-9518		
Civ	Hensley	Mike	FAA/AOS-231	(405) 954-5141		(405) 954-8371	mike_hensley@mmacmail.jccb1.gov
MSgt	Hernandez	Hector	1 AF/SCXP	(904)283-3768	523-3768	523-0604	hhernandez@af1.ang.af.mil
Civ	Hernandez	Kathy	FAA/ASO-472	(404) 305-8614		(404) 305-6553	kathy.hernandez@faa.dot.gov
Capt	Hindmarch	Edmond	611 ASUS/LGR	(907) 552-8113	552-8113	552-8279	hindmart@611lsspo.topcover.af.mil
Civ	Hockett	Billie	SM-ALC	(916) 643-3093	633-3093	633-6329	hockett.billie@sma1.mcclellan.af.mil
Civ	Hodges	Steve	FAA/AND-440	(202) 267-7849		(202) 267-5460	sjpdges@faa.dot.gov
Civ	Hoikit	Mary	ASW-510F	(817) 222-5519			mary.hokit@faa.dot.gov
Civ	Hollebeke	Gregrey	ANE-510.4	(617) 238-7514		(617) 238-7598	gregory.hollebeke@faa.dot.gov
Civ	Howland	Jerald	MIN ARTCC	(612) 463-5538		(612) 463-5576	
CMSgt	Ingram	Robert	HQ ACC/SCXS	(757) 764-2021	574-2021	574-6060	ingramr@hqaccsc.langley.af.mil
TSgt	Jeskey	William	N/US J8LAA	(719) 654-3591	692-3591		bjesky@spacecom.af.mil
Civ	Jett	John	84 RADES	(801) 777-2385	777-2385	777-3268	jettjo@rades.hill.af.mil
Civ	Johnson	Joseph	AGL-458.1	(847) 294-7653		(847) 294-7086	
Capt	Jones	Greg	1 AF/SCXP	(904) 285-5090	523-5090	(904) 285-0604	
SMSgt	Jones	Michael	WADS/SCLQ	(206)984-4756	984-4756		jonesmi@wads.mcchord.af.mil
Civ	Jorgensen	Rich	SM-ALC	(916) 643-3093	633-3093	(916) 643-6329	jorgensenn.richard@
MSgt	Justy	Kevin	605 TS/TSB	(904) 882-4661	872-5661	(904) 882-5854	justy@wg53.eglin.af.mil
Maj	Kaelin	Robert	1 AF/SCM	(904)283-2943	523-2943		rkaelin@af1.ang.af.mil
Civ	Kessler	Robert	Vitro/AND-440	(202) 267-3622			
Capt	Kincaid	Mike	325 TRS/DOBF	(904) 283-2967	523-2967	523-2250	kincaidm@af1.ang.af.mil
Civ	Kinney	Donald	FAA/AND-440	(202) 267-5329			
Civ	Klose	Robert		(904) 272-3491			
Civ	Kodsi	Khalil	FAA-ANS-700	(202) 267-3622			
Civ	Koehler	John	US Customs/CNAC	(405) 686-6410	884-3813		jkoehler@cnac.gov
Civ	Krishman	Sampath	AOP-400/FAA	(202) 863-7325		(202) 863-7333	sampath.krishmann@faa.dot.gov
Civ	Lay	Richard	AND-440	(202) 267-7768		(202) 267-5460	rlay@dot.faa.gov
Civ	Leniham	John	NEADS/CE	(315)334-6142	587-6142	587-6710	lenihams@neads.ang.af.mil
Civ	Levy	Joseph	MITRE	(617)271-2631		(617)271-5319	levyjo@mitre.org
Lt Col	Lihani	J. Brian	WADS	(206)984-4738	984-4395		lihanib@wads.mcchord.af.mil
Civ	Long	Paul	MITRE	(703) 883-7545		(703) 883-1364	pclong@mitre.org
Civ	Lujan	Juan	WADS	(206)984-4738	984-4398	(206)984-4790	lujanju@wads.mcchord.af.mil
Maj	Luke	Norbert	HIANG	(808)655-7057	315-455-7057		NLUKE@HIHIK.ANG.AF.MIL

**FORMAL MEETING**  
**19-21 NOV**

MSGt	Lyons	Rachel	SEADS/SCX	(904)283-5547	523-5547	523-5411	RL YONS@AF1.ANG.AF.MIL
Civ	Markey	Gerald	FAA/ASR-1	(202) 267-9738		(202) 267-9738	gerald.markey@faa.dot.gov
MSG	Mead	William	FORSCOM	(404) 669-7876	367-7876	367-7201	meadow@ftmcpshn-emh1.army.mil
Civ	Means	Randall	FAALC AML-611	(405) 954-5572		(405) 954-4136	randall_c_means@mmacmail.ccbi.gov
Civ	Morris	Fred	FAA/ASO-472	(404) 305-6607		(404) 305-6553	fred.morris@faa.dot.gov
Civ	Motley	James	FAA/AWP-473.9	(310) 725-7445		(310) 536-8788	james.motley@faa.dot.gov
Civ	Mulholland	Hugh	FAA/AWP-453.29	(310) 725-7704		(310) 536-8562	hugh.p.mulholland@faa.dot.gov
Civ	Nappi	Tony	FAA/AEA-472	(718) 712-5690		(202) 267-4749	
Civ	Neal	Lorraine	FAA/HQ/AOP-200	(202) 267-8848		(202) 267-5632	lneal@faa.dot.gov
Civ	Nelson	James	FAA/ASO-471	(404) 305-6564		(404) 305-6553	
Civ	Ng	Bruce	FAA/ANE-422	(617) 238-7434		(404) 305-6553	bruce.ng@faa.dot.gov
Civ	Notesline	Lucinda	SEADS/ILG/CE	(904) 283-5456	523-5456	523-5411	notesl@af1.ang.af.mil
Capt	O'Driscoll	Patrick	ACC/DOYG	(757) 764-8380	574-8380	574-8460	odriscolp@hqaccd.angley.af.mil
Maj	Olsen	Noreen	PACAF/DOCO	(808) 449-4264	315-449-4264	(808) 449-4283	olsen@emh.cidss.af.mil
Maj	Omara	John P.	NEADS/SC	(315) 334-6299	587-6299	(315) 334-6242	omara@emh.cidss.af.mil
Civ	Paddock	Ronald	HQ 38 EIG/EIC	(405) 734-5626	884-5626	884-5625	omara@emh.cidss.af.mil
MSGt	Pantop	Charles	SEADS/DOY	(904) 283-5523	523-5523	523-5417	cpanton@af1.ang.af.mil
Civ	Parker	Jay	HQ38EIG/EI	405-734-9679	884-9679		
Civ	Paul	Rob	FAA/HQ/ATR-110	(202) 267-7045			
Civ	Peter	Scott	AEA-470	(718) 712-8595			
Civ	Peterson	Philip	FAA6L472	847-294-7765		(847) 294-7128	ppeterson@mail.hq.faa.gov
Civ	Pham	Brenda	38 EIG/EICR	(405) 734-5626			bpogpgel@rmci.com
Civ	Pogozlski	Bernadette	RMCI/ANS500	(202) 554-1665		(202) 554-1670	
Civ	Polchart	Michael J.	FAA/ANND-440	(202) 493-4029		(202) 267-5460	
LI	Radulski	Dan	HQ ESC/TNN	(617) 377-7226	478-7226	478-9567	radulskid@lango-vs1.hanscom.af.mil
Civ	Redwine	Wayne	FAA/ASW-710	(817) 222-5712		(817) 222-5980	h_wayne_redwine@dor.faa.gov
Civ	Riccono	August	FAA/ASW472	(817) 222-4722		(817) 222-5976	
Civ	Riordan	Steve	FAA/ANMA50T1N	(206) 227-2482		(206) 227-1445	steve_rriordan@mail.hq.faa.gov
Civ	Rivers	Stan	AAF-1				
Maj	Ryczak	Mike	NEADS/DOY	(315) 334-6177	587-6177	587-6244	
Civ	Salazar	Ruben	AWP-501 E/NISC	(310) 725-6511			rubena.salazar@faa.dot.gov
Civ	Salinas	Salvador	DMS TSS	(612) 483-5619		(612) 463-5466	sal.salinas@faa.dot.gov
Civ	Schimelpfeni	Bob	NAVREP-FAA/AK	(310) 725-8903			schubert@bah.com
Civ	Schubert	Thomas	NAVAIRSYSCOM	(703) 902-5223		(703) 902-3631	hana.m.shoga@faa.dot.gov
Civ	Shoga	Hana	FAA/AWP 453	(310) 725-7678		(310) 536-8562	rsilverio@af1.ang.af.mil
SMSgt	Silverio	Robert	1 AF/DOYR	(904) 283-3786	523-3786	523-0608	
Civ	Sitch	Edward	ANS-200-NLSL	(202) 246-2178		(202) 646-5480	smithde@wads.mccchord.af.mil
LI Col	Smith	Dennis	WADS	(206) 984-4736	984-4736	984-4807	

**FORMAL MEETING  
19-21 NOV**

Civ	Steele	John	FAA ANS-110-NSC	(202) 646-2119			
Civ	Stewart	Kenneth	WADS/LGS	(206)984-4614	984-4614		stewart@wads.mcchord.af.mil
Civ	Swartzendruber	Tracy	NEADS/SCXC	(315)334-6601	587-6601	587-6242	swartzet@neads.ang.af.mil
Civ	Syptak	William	FAA/AND-447	(202) 267-8485		(202) 267-5460	william.syntac@dot.faa.gov
Civ	Taylor	John	FAA ASO-452	(404) 303-6435		(404) 303-6383	taylorj@dot.faa.gov
Col	Tennant	Phillip	NEADS/DOC	(315) 334-6727	587-6727		tennantp@neads.ang.af.mil
Civ	Thomas	John R.	FAA ANS110/NISC	(202) 646-5357			
Civ	Thompson	Don	MINN SCC	(218) 885-2267		(218) 885-1367	R11, Box 45D AGLDMS, QJD Nashwaul, MN 55769
Civ	Thompson	Kenneth	FAA-AFR-304	(202) 267-9734		(202) 267-5901	kenneth.thmpson@faa.dot.gov
Capt	Thompson	Penelope	325 TRS/DOT	(901) 283-3564	523-3564	(523-5520	
Civ	Thompson	Susan	ASO-510 FAA	(404-305-5546		(404) 305-5523	thompson@dot.faa.gov
SSgt	Tracy	Michael	WADS	(206) 984-4729	984-4729	984-4804	tracymi@wads.mcchord.af.mil
Civ	Tracy	Newell	FAA-SW REG	(817) 222-4789			newell.tracy.at.asw400p3@faa.dot.gov
Civ	Treacy	John P.	ESC/TNN	(617) 377-4626	478-4626	(617) 478-9561	treacyjo@hancom.af.mil
Civ	Truong	Chris	HQ38EIG/EICR	(405) 734-5626	884-5626		
Civ	Tucker	Robert	DAICC	(909) 656-8050	947-8766	(909)656-8070	
Civ	Tudor	Sky	AAL-470 (NISC)	(907) 271-2368		(907) 271-2378	sky.a.tudor@faa.dot.gov
Civ	Turechek	Steve	611 ASUS/LGA	(907) 552-1989	317- 552-198	317- 552-9706	turechecs@611lsspo.topcover.af.mil
TSgt	Tyler	Brian	15 CS/SCXP	(808) 449-8812	315-4498812		tylerb@wpgate.hickam.af.mil
Civ	Vanechanos	George	FAA/AEA-453.1	(718) 553-3471		(718) 995-5750	
Civ	Vu	Tammy	HQ38EIG/EICR	(405) 734-5626	884-5626	884-5625	tammy-vu@mailgate.eiw38.af.mil
Civ	Wallace	Kari	30 RANS/DOUN	(805) 734-8232	276-3602	275-2663	schobelw@opsgrp1.vafb.af.mil
MSgt	Webb	Susan	NEADS/DOY	(315) 334-6177	587-6177		swebb@neads.ang.af.mil
Civ	West	Cecil J.	ASO-471 NISC	(404) 305-6563	305-653	(404) 305-6553	
Civ	Whitbeck	Steve	NISE EAST	(803) 974-4333	563-2030	(803)747-1055	whitebecs@niseast.nosc.mil
MSgt	Williams	Tony	NORAD/J3WS	(719) 554-5481	692-5481	(719)554-5479	twilliams@spacecom.af.mil
Civ	Wormley	Ed	ACC/SC	(757) 764-4439	574-4439	574-2226	wormleye@hqaccsc.af.mil
Civ	Wuest	Matthew	NRADS San Diego	(619) 524-2140	524-2140	524-3495	wuestmk@nosc.mil
Civ	Wunderlich	Robert	HTI/AND.440	(703) 706-9683		(703) 684-3380	bwunderlich@horizons.com
Capt	Dellaert	John	611 ACF/DOYC	(907) 552-1295	315-552-1295	(907) 552-8730	dellaert@11afmail.topcover.af.mil
Civ	Eastman	Cornelius	AAL-472R	(907) 271-5362		(907) 271-4810	cornelius.eastman@faa.dot.gov
Civ	Goward	Clarence	AAL-516	(907) 552-8113	315-552-8113	552-8279	clarence.goward@faa.dot.gov

**FORMAL MEETING  
19-21 NOV**

Civ	Steele	John	FAA ANS-110-NSC	(202) 646-2119			
Civ	Stewart	Kenneth	WADS/LGS	(206)984-4614	984-4614		stewart@wads.mcchord.af.mil
Civ	Swartzendruber	Tracy	NEADS/SCXC	(315)334-6601	587-6601	587-6242	swartzet@neads.ang.af.mil
Civ	Syptak	William	FAA/AND-447	(202) 267-8485		(202) 267-5460	william.syntac@dot.faa.gov
Civ	Taylor	John	FAA ASO-452	(404) 303-6435		(404) 303-6383	taylorj@dot.faa.gov
Col	Tennant	Phillip	NEADS/DOC	(315) 334-6727	587-6727		tennantp@neads.ang.af.mil
Civ	Thomas	John R.	FAA ANS110/NISC	(202) 646-5357			
Civ	Thompson	Don	MINN SCC	(218) 885-2267		(218) 885-1367	R11, Box 45D AGLDMS, QJD Nashwaul, MN 55769
Civ	Thompson	Kenneth	FAA-AFR-304	(202) 267-9734		(202) 267-5901	kenneth.thmpson@faa.dot.gov
Capt	Thompson	Penelope	325 TRS/DOT	(901) 283-3564	523-3564	(523-5520	
Civ	Thompson	Susan	ASO-510 FAA	(404-305-5546		(404) 305-5523	thompson@dot.faa.gov
SSgt	Tracy	Michael	WADS	(206) 984-4729	984-4729	984-4804	tracymi@wads.mcchord.af.mil
Civ	Tracy	Newell	FAA-SW REG	(817) 222-4789			newell.tracy.at.asw400p3@faa.dot.gov
Civ	Treacy	John P.	ESC/TNN	(617) 377-4626	478-4626	(617) 478-9561	treacyjo@hancom.af.mil
Civ	Truong	Chris	HQ38EIG/EICR	(405) 734-5626	884-5626		
Civ	Tucker	Robert	DAICC	(909) 656-8050	947-8766	(909)656-8070	
Civ	Tudor	Sky	AAL-470 (NISC)	(907) 271-2368		(907) 271-2378	sky.a.tudor@faa.dot.gov
Civ	Turechek	Steve	611 ASUS/LGA	(907) 552-1989	317- 552-198	317- 552-9706	turechecs@611lsspo.topcover.af.mil
TSgt	Tyler	Brian	15 CS/SCXP	(808) 449-8812	315-4498812		tylerb@wpgate.hickam.af.mil
Civ	Vanechanos	George	FAA/AEA-453.1	(718) 553-3471		(718) 995-5750	
Civ	Vu	Tammy	HQ38EIG/EICR	(405) 734-5626	884-5626	884-5625	tammy-vu@mailgate.eiw38.af.mil
Civ	Wallace	Kari	30 RANS/DOUN	(805) 734-8232	276-3602	275-2663	schobelw@opsgrp1.vafb.af.mil
MSgt	Webb	Susan	NEADS/DOY	(315) 334-6177	587-6177		swebb@neads.ang.af.mil
Civ	West	Cecil J.	ASO-471 NISC	(404) 305-6563	305-653	(404) 305-6553	
Civ	Whitbeck	Steve	NISE EAST	(803) 974-4333	563-2030	(803)747-1055	whitebecs@niseast.nosc.mil
MSgt	Williams	Tony	NORAD/J3WS	(719) 554-5481	692-5481	(719)554-5479	twilliams@spacecom.af.mil
Civ	Wormley	Ed	ACC/SC	(757) 764-4439	574-4439	574-2226	wormleye@hqaccsc.af.mil
Civ	Wuest	Matthew	NRADS San Diego	(619) 524-2140	524-2140	524-3495	wuestmk@nosc.mil
Civ	Wunderlich	Robert	HTI/AND.440	(703) 706-9683		(703) 684-3380	bwunderlich@horizons.com
Capt	Dellaert	John	611 ACF/DOYC	(907) 552-1295	315-552-1295	(907) 552-8730	dellaert@11afmail.topcover.af.mil
Civ	Eastman	Cornelius	AAL-472R	(907) 271-5362		(907) 271-4810	cornelius.eastman@faa.dot.gov
Civ	Goward	Clarence	AAL-516	(907) 552-8113	315-552-8113	552-8279	clarence.goward@faa.dot.gov



DOD/FAA CURRENT ADDRESS LIST  
USAF/NAVY/CUSTOMS  
AS OF NOV 96

MAIL

SAF/AQPC  
1060 Air Force Pentagon  
Washington, DC 20330-1060

HQ USAF/XOOTI  
1480 Air Force Pentagon  
Washington, DC 20330-1480

HQ USAF/PEPJ  
1070 Air Force Pentagon  
Washington, DC 20330-1070

HQ ACC/XPP-JRPG  
204 Dodd Blvd, Ste 202  
Langley AFB VA 23665-2778

HQ ACC/CER/CEP/CEV  
129 Andrews St, Ste 346  
Langley AFB VA 23665-2769

HQ ACC/DOY  
30 Elm Street, Ste 215  
Langley AFB VA 23665-2093

HQ ACC/DRC  
204 Dodd Blvd, Ste 226  
Langley AFB VA 23665-2777

HQ ACC/SCMB/SCCJ  
180 Benedict Ave, Ste 209  
Langley AFB VA 23665-1993

NGB/XOPC  
2500 Army Pentagon  
Washington DC 20310-500

ANGRC/SCMM  
3500 Fetchet Ave  
Andrews AFB MD 20762-5157

SM-ALC/LHE/LHEP  
5012 Dudley Blvd (B-269H)  
McClellan AFB CA 95652-1038

MESSAGE

SAF WASH DC//AQPC//

HQ USAF WASH DC//XOOTI//

HQ USAF WASH DC//PEPJ//

HQ ACC LANGLEY AFB VA//XPP-JRPG//

HQ ACC LANGLEY AFB VA//CER/CEP/  
CEV//

HQ ACC LANGLEY AFB VA//DOY//

HQ ACC LANGLEY AFB VA//DRC//

HQ ACC LANGLEY AFB VA//SCM/SCC//

NGB WASH DC//XOPC//

ANGRC ANDREWS AFB MD//SCMM//

DIR SPACE AND C-3 MGMT MCCLELLAN  
AFB CA//LHE/LHEP//

DOD/FAA CURRENT ADDRESS LIST  
USAF/NAVY/CUSTOMS (CONTINUED)

MAIL

HQ AFCA/SYX  
203 W. Losey  
Scott AFB IL 62225-5219

HQ ESC/TNF/TNN  
51 Schilling Circle Bldg 1302F  
Hanscom AFB MA 01731-2120

HQ PACAF/DOQZ/DOCY  
25 E St, Ste I232  
Hickam AFB HI 96853-5426

HQ PACAF/SCMB/SCXP  
25 E St, Ste C310  
Hickam AFB HI 96853-5409

10 ADS/CC/DO  
1102 Wright Ave  
Wheeler AAF HI 96854

605 TS/TSH  
203 West D Ave, Ste 400  
Eglin AFB FL 32542-6867

HQ NORAD/J3WS/J5R  
250 S Peterson Blvd, Ste 116  
Peterson AFB CO 80914-3260

US SPACECOM/J6C  
150 Vandenberg St, Ste 1105  
Peterson AFB CO 80914-4730

1 AF/SCL/SCM/SCX/  
590 Suwannee Rd, Ste 7  
Tyndall AFB FL 32403-5546

1 AF/DOY  
501 Illinois Ave, Ste 2  
Tyndall AFB FL 32403-5548

1AF/LGMS  
425 Minnesota Ave Ste 3  
Tyndall AFB FL 32403

MESSAGE

HQ AFCA SCOTT AFB IL//SYX//

HQ ESC HANSCOM AFB MA//TNF/TNN//

HQ PACAF HICKAM AFB HI//DOQZ/  
DOCY//

HQ PACAF HICKAM AFB//SCMB/  
SCXP//

10 ADS WHEELER AAF HI//CC/DO//

605 TS EGLIN AFB FL//TSH//

HQ NORAD PETERSON AFB CO//  
J3WS/J5R//

USSPACECOM PETERSON AFB CO//  
J6C//

1 AF TYNDALL AFB FL//SCM/SCX/  
LGMS//

1 AF TYNDALL AFB FL//DOY//

1AF TYNDALL AFB FL//LGMS//



DOD/FAA CURRENT ADDRESS LIST  
USAF/NAVY/CUSTOMS (CONTINUED)

MAIL

611 AOG/CC//  
5800 G Street, Ste 102  
Elmendorf AFB AK 99506-2130

611 ACF/DOY  
5800 G STREET STE 102  
Elmendorf AFB AK 99506-2130

611 ASUS/CC/LGR/LGA  
6900 9th St, Ste 246/Ste 345  
Elmendorf AFB AK 99506-2270

30 RANS/DOUN  
816 13th St, Ste C  
Vandenberg AFB CA 93437-5233

SE AD Sector/SCX/DOC/DOY/SCL/CE/LG  
164 Alabama Ave  
Tyndall AFB FL 32403-5000

NE AD Sector/SC/DO/CE/DOC/DOY/  
SCX/SCL/SCLQ/LGS  
305 Burhanna Rd  
Rome NY 13441-4507

W AD Sector/SCX/DOX/DOC/SCL/JRPG  
SCLQ/CE/LGS/DOCO  
852 Lincoln Blvd  
McChord AFB WA 98438-1317

38 EIG/EICR  
3580d AVENUE (BLDG 201w)  
Tinker AFB OK 73145-9155

38 EIS/DRC  
4012 Hilltop Rd., Ste 3  
Tinker AFB OK 73145-2713

84 RADES/CC/TO/TOA/TOY/  
7976 Aspen Avenue  
Hill AFB UT 84056-5846

MESSAGE

611 AOG ELMENDORF AFB AK//CC//

611ACF ELMENDORF AFB AK//DOY//

611 ASUS ELMENDORF AFB AK//CC/LGA/  
LGR//

30 RANS VANDENBERG AFB CA//  
DOUN//

SE AD SECTOR TYNDALL AFB FL//SCX/DOC/  
DOY/SCL/LG/CE//

NE AD SECTOR ROME NY//SC/DO/  
CE/DOC/DOY/SCX/SCL/SCLQ/LGS//

W AD SECTOR MCCHORD AFB WA//SCX/  
DOCO/DOC/SCL/SCLQ/CE/LGS//

38 EIG TINKER AFB OK//EICR//

38 EIS TINKER AFB OK//DRC//

84 RADES HILL AFB UT//CC/TOA/TOY//

4/7/97

DOD/FAA CURRENT ADDRESS LIST  
USAF/NAVY/CUSTOMS (CONTINUED)

MAIL

154 OG/DO/MAI  
360 Harbor Drive  
Hickam AFB HI 96853-5517

Naval Air Systems Command  
PMA 2132  
Villa Roaad - Bldg 271  
St. Inigoes, MD 20684-0010

NCCOSC RDTE Div  
Code D335Mw  
53560 Hull ST  
San Diego, CA 92152-5001

NISE EAST  
Code 313/315 4600 Marriott Drive  
North Charleston, SC 29406-6504

Fleet Area Control and Surveillance Facility  
Code 03TD-P.O. Box 357062  
San Diego CA 92135-7062

U.S. Customs Service  
C3I Program Office  
National Aviation Center  
5020 S. Meridian Ave.  
Oklahoma City, OK 73119-5000

HQ AFFSA/XP  
1535 Command Drive, Ste D-309  
Andrews AFB MD 20331-7002

325 TRS/DO  
213 Dixie Rd  
Tyndall AFB FL 32403-5016

169 ACWS/DO/MAI  
1102 Wright Ave  
Wheeler AAF, HI 96854-5200

MESSAGE

154OG HICKAM AFB HI//DO/MAI//

COMNAVAIRSYSCOM WASH DC//  
PMA 2132//

NCCOSC RDTE DIV SAN DIEGO CA//335/654//

NISE EAST CHARLESTON SC//313/315//

FACSFAC SAN DIEGO CA//03TD//

USCS CNAC OKLAHOMA CITY OK//  
C3I PROGRAM OFFICE//

HQ AFFSA ANDREWS AFB MD//XR//

325 TRS TYNDALL AFB FL// DO//

169ACWS WHEELER AAF HI//DO/MAI//

4/7/97

6430.2 CHG 38  
Attachment 80

DOD/FAA CURRENT ADDRESS LIST  
USAF/NAVY/CUSTOMS (CONTINUED)

MAIL

USCUSTOMS SERVICE  
DAICC  
P.O. BOX 6363  
MARCH AFB CA 92518

57 OSS/OSAM  
4450 Tyndall Ave  
Nellis AFB nv 89191-6067

MESSAGE

USCS DAICC MARCH AFB CA//OPS//

57 OSS NELLIS AFB NV//OSAM//

DOD/FAA CURRENT ADDRESS LIST

FAA

MAIL

FAA/AOP-300-JRPG/  
ACO-320/ATR-110  
ASE-300/ASI-200/AFZ-100/  
AND-440/ASE-20  
800 Independence Ave., SW  
Washington, DC 20591-5000

FAA Technical Center/AOS-520  
Atlantic City Airport  
Atlantic City, NJ 08405-5000

FAA Aeronautical Center/  
AML-610  
P.O. Box 25082  
Oklahoma City, OK 73125-4952

FAA Aeronautical Center/AOS-200  
6500 S. MacArthur, Bldg 189  
Oklahoma City, OK 73125-

FAA/AEA-462/AEA-510  
FAA Eastern Region  
Fitzgerald Building  
JFK International Airport  
Jamaica, NY 11430-5000

FAA/AGL-459.3/459.13/  
AGL-512/AGL-458.1  
FAA Great Lakes Region  
2300 E. Devon Avenue  
Des Plaines, IL 60018-5000

FAA/ZMP-510  
FAA/Minneapolis ARTCC  
512 Division Street  
Minneapolis, MN 55024-5000

FAA/ANE-471/ANE-511  
FAA New England Region  
12 New England Exec Park  
Burlington, MA 01803

MESSAGE

FAA WASH DC//AOP-300-JRPG/ACO-320/  
ATR-110/ASE-300/ASI-200/AFZ-100/  
AND-440/ASE-20//

FAA TECH CENTER ATLANTIC CITY  
NJ//AOS-520//

FAA AERONAUTICAL CENTER  
OKLAHOMA CITY OK//AML-610//

FAA AERONAUTICAL CENTER  
OKLAHOMA CITY OK//AOS-200//

FAA EASTERN RGN NEW YORK NY  
//AEA-462/AEA-510//

FAA GREAT LAKES RGN DES PLAINES IL//  
AGL-459.3/459.13/AGL-512/AGL-458.1//

FAA MINNEAPOLIS ARTCC MINNEAPOLIS  
MN//ZMP-510//

FAA NEW ENGLAND RGN BURLINGTON MA//  
ANE-47162/ANE-511//

DOD/FAA CURRENT ADDRESS LIST

FAA

MAIL

FAA/AOP-300-JRPG/  
ACO-320/ATR-110  
ASE-300/ASI-200/AFZ-100/  
AND-440/ASE-20  
800 Independence Ave., SW  
Washington, DC 20591-5000

FAA Technical Center/AOS-520  
Atlantic City Airport  
Atlantic City, NJ 08405-5000

FAA Aeronautical Center/  
AML-610  
P.O. Box 25082  
Oklahoma City, OK 73125-4952

FAA Aeronautical Center/AOS-200  
6500 S. MacArthur, Bldg 189  
Oklahoma City, OK 73125-

FAA/AEA-462/AEA-510  
FAA Eastern Region  
Fitzgerald Building  
JFK International Airport  
Jamaica, NY 11430-5000

FAA/AGL-459.3/459.13/  
AGL-512/AGL-458.1  
FAA Great Lakes Region  
2300 E. Devon Avenue  
Des Plaines, IL 60018-5000

FAA/ZMP-510  
FAA/Minneapolis ARTCC  
512 Division Street  
Minneapolis, MN 55024-5000

FAA/ANE-471/ANE-511  
FAA New England Region  
12 New England Exec Park  
Burlington, MA 01803

MESSAGE

FAA WASH DC//AOP-300-JRPG/ACO-320/  
ATR-110/ASE-300/ASI-200/AFZ-100/  
AND-440/ASE-20//

FAA TECH CENTER ATLANTIC CITY  
NJ//AOS-520//

FAA AERONAUTICAL CENTER  
OKLAHOMA CITY OK//AML-610//

FAA AERONAUTICAL CENTER  
OKLAHOMA CITY OK//AOS-200//

FAA EASTERN RGN NEW YORK NY  
//AEA-462/AEA-510//

FAA GREAT LAKES RGN DES PLAINES IL//  
AGL-459.3/459.13/AGL-512/AGL-458.1//

FAA MINNEAPOLIS ARTCC MINNEAPOLIS  
MN//ZMP-510//

FAA NEW ENGLAND RGN BURLINGTON MA//  
ANE-47162/ANE-511//

4/7/97

DOD/FAA CURRENT ADDRESS LIST  
FAA /CUSTOMS (CONTINUED)

MAIL

FAA/AAL-470/AAL-500  
FAA Alaska Region  
222 W. 7th Ave. Box 14  
Anchorage, AK 99513-7587

USCUSTOMS SERVICE  
DAICC  
P.O. Box 6363  
March AFB CA 92518

MESSAGE

FAA ALASKA RGN  
ANCHORAGE AK//AAL-470-AAL-500//

USCS DAICC MARCH AFB CA//OPS//

4/7/97

6430.2 CHG 38  
Attachment 80

# **FAA REGIONAL JRPG COORDINATORS**

## **ATTACHMENT 3**









4/7/97

6430.2 CHG 38  
Attachment 80

## **DOD JRPG COORDINATORS**

### **ATTACHMENT 4**



DOD JRPg COORDINATORS

<u>Name</u>	<u>Organization</u>	<u>Telephone</u>
Tom Schubert	NAVAIRSYSCOM (USN)	(703) 902-5223
Richard (Dick) Constable	NEADS/SCQJ	(315) 334-6143 DSN 587-6143
Steve Whitbeck	NISE East Charleston (USN)	(803) 974-4333 DSN 563-2030
William Clemens	SEADS/SCLQ	(904) 283-5481 DSN 523-5481
Lee Eby	WADS/SCLQ	(206) 984-4758 DSN 984-4758
Maj Debbie Levin	611ACF/DOY (ANR)	(907) 552-1294 DSN 317 552-1294
Matthew Wuest	NISE West San Diego (USN)	(619) 524-2140 DSN 524-2140
Maj Noreen Olsen	PACAF/DOCO	(808) 449-4264 DSN (315) 449-4264











## **JOINT RADAR PLANNING GROUP ( JRPG )**

**( DOD / FAA )**

1



## **OVERVIEW**



- **OBJECTIVE**
- **ORGANIZATION**
  - **AUTHORITY AND EXECUTIVE AGENT**
  - **JRPG CHAIRPERSONS**
  - **PARTICIPANTS**
- **JOINT SURVEILLANCE SYSTEM**
  - **MAPS**
- **ISSUES**

2

4/7/97



## JOINT RADAR PLANNING GROUP



● **OBJECTIVE - PROVIDES FORMALIZED  
PLANNING FOR JOINT USE OF LONG RANGE  
RADAR FACILITIES**

- **FAA PROVIDES**  
CIVIL AIR TRAFFIC CONTROL
- **DOD PROVIDES**  
PEACETIME - SURVEILLANCE AND AIR SOVEREIGNTY  
WARTIME - LIMITED AIR DEFENSE

3



## AUTHORITY & EXECUTIVE AGENTS



**EXECUTIVE ORDER  
"CIVIL AIR POLICY" 26 MAY 54**

DOD - - - - - DOT  
USAF  
ACC - - - - - FAA  
ATS  
XP - - - - - AAF  
XPP - - - - - AOP-1  
AOP-300  
XPP-JRPG - - - - - AOP-300  
JRPG

4



## JOINT RADAR PLANNING GROUP



- TWO CHAIRPERSONS
  - DOD COCHAIRMAN - KEN KINGSMORE  
ACC / XPP-JRPG
  - FAA COCHAIRMAN - GIL MAUCK  
FAA / AOP-JRPG

5



## JOINT RADAR PLANNING GROUP PARTICIPANTS



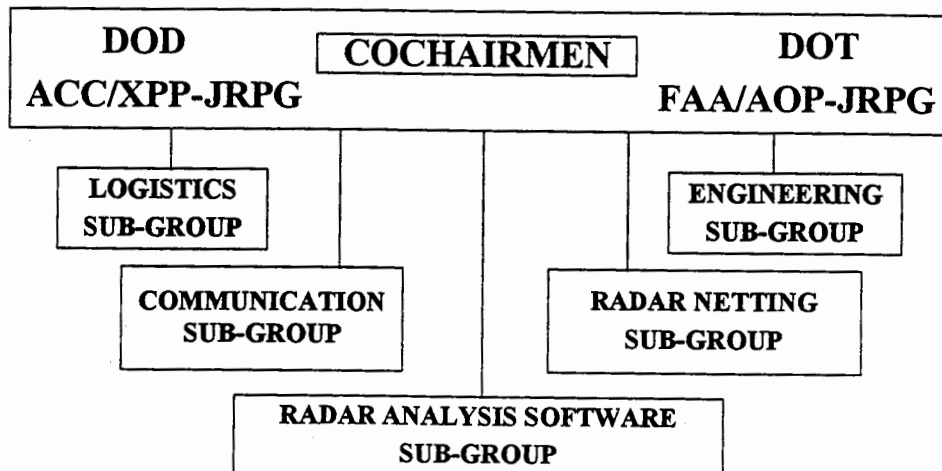
- DOD - HQ USAF, NGB, ACC, NORAD, ANG, ESC, PACAF, NAVY, SPACECOM, AFC4A, ANR, SM-ALC, 1 AF, NISE EAST & WEST, US CUSTOMS, HIANG, 3 AIR DEFENSE SECTORS & USN FACS FAC
- FAA - HQ FAA, FAA REGIONS ( NEW ENGLAND, EASTERN, SOUTHERN, SOUTHWEST, WESTERN-PACIFIC, NW MOUNTAIN, GREAT LAKES & ALASKAN ), FAA DEPOT, FAA TECH CENTER, FAA AERONAUTICAL CENTER

6

4/7/97



## JRPG ORGANIZATION AND STRUCTURE



7



## JOINT SURVEILLANCE SYSTEM



### ● CONSISTS OF -- CONTUS PACAF ALASKA TOT

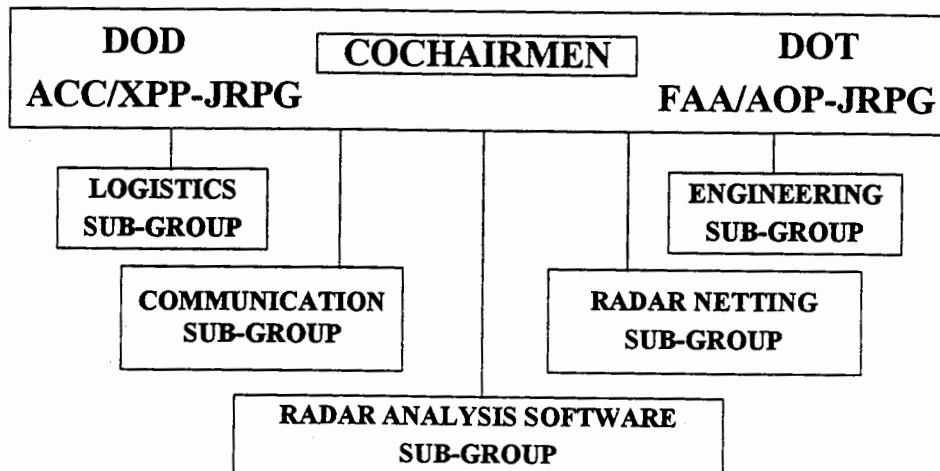
- OPS CONTROL CTR	3	1	1	5
- SYSTEM SPT ELEMENT	1			1
- RADAR SITES	43	3	19	65

8

4/7/97



## JRPG ORGANIZATION AND STRUCTURE



7



## JOINT SURVEILLANCE SYSTEM



### ● CONSISTS OF -- CONTUS PACAF ALASKA TOT

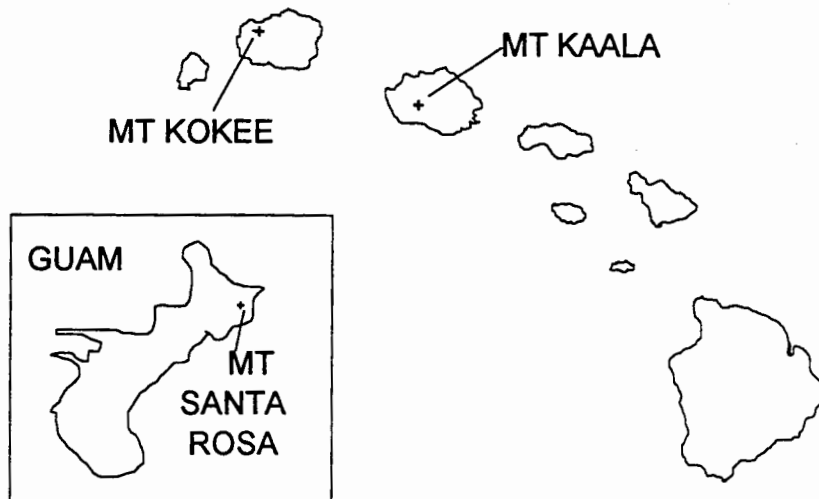
- OPS CONTROL CTR	3	1	1	5
- SYSTEM SPT ELEMENT	1			1
- RADAR SITES	43	3	19	65

8

4/7/97



## PACAF JOINT USE RADAR SITES



11



## PACAF JOINT USE RADAR SITES



### ● 3 JOINT USE SITES

- DATA SHARED BY USAF / FAA / USN
- 1 ANG FACILITY / ANG & FAA MAINTAIN (MT KAALA )
- 1 ANG FACILITY / ANG MAINTAINS ( MT KOKEE )
- 1 PACAF FACILITY / FAA & PACAF MAINTAIN  
( MT SANTA ROSA )

12



**(PACAF)  
ALASKA JOINT USE SITE**



● **19 JOINT USE SITES**

- 15 USAF LRRs (AN/FPS-117)
- 1 ARSR-3 (FAA OWNED)
- 3 ATCBI-5 (FAA OWNED)

● **USAF SITES MAINTAINED BY CONTRACTOR**

14



**ARSR-4 SITE STATUS**



● **44 ARSR-4 SITES**

- 40 JSS SITES
- 2 NAVY SITES
- 1 TRAINING SITE
- 1 USAF ONLY SITE

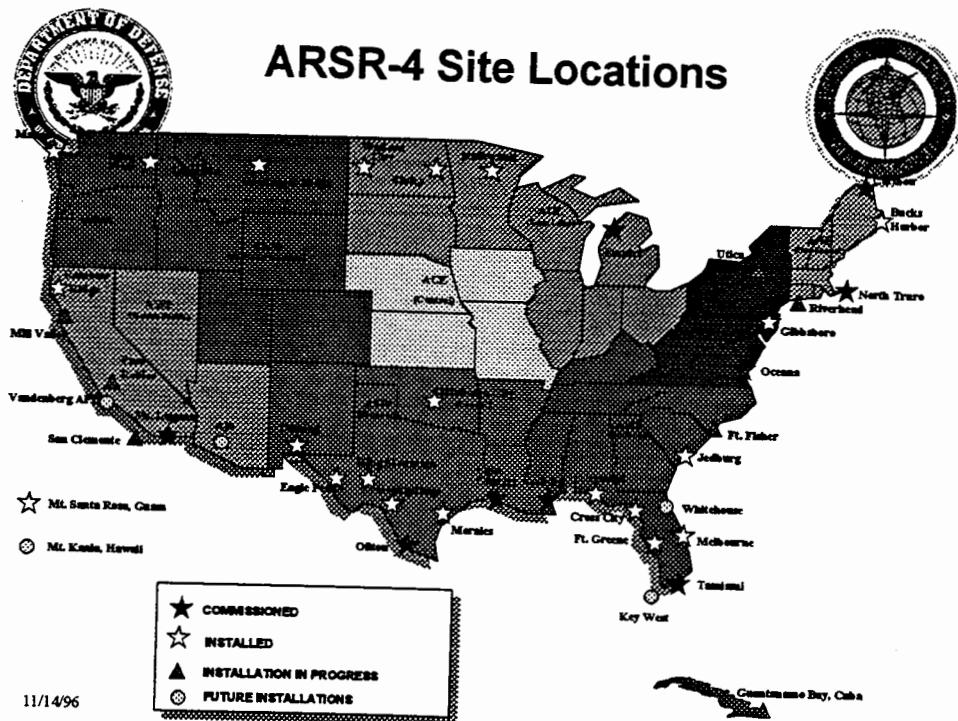
● **9 SITE COMMISSIONED**

● **30 SITES INSTALLED**

● **10 SITES WITH INSTALLATION IS IN PROGRESS**

15

4/7/97





4/7/97

6430.2 CHG 38  
Attachment 80

## **AIR SOVEREIGNTY BRIEFING**

### **ATTACHMENT 6**





**HQ NORAD**

**AIR SOVEREIGNTY  
OVERVIEW**

**HQ NORAD/J3WS  
AEROSPACE WARNING DIVISION**

**MSgt Tony Williams**



**HQ NORAD**

**CINCNOAD WILL OPERATE FORCES AS  
FAR FROM THE NORTH AMERICAN  
CONTINENT AS REQUIRED TO ENSURE  
THE AIR SOVEREIGNTY AND AIR DEFENSE  
OF CANADA AND THE UNITED STATES.**



## **HQ NORAD**

- **BINATIONAL CANADIAN AND US COMMAND**
- **ESTABLISHED IN 1958**
- **HQ PETERSON AFB, COLORADO SPRINGS,  
COLORADO**
- **COMBINED CANADIAN AND JOINT US STAFF**
- **CHEYENNE MOUNTAIN COMPLEX SERVES AS  
COMBINED NORAD AND USSPACECOM OPS CENTER**

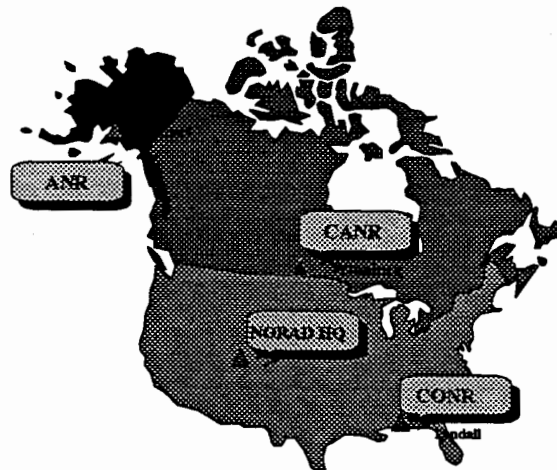


## **BACKGROUND**

- **CURRENTLY COMMANDED BY A US FLAG OFFICER  
WITH A CANADIAN FLAG OFFICER DEPUTY**
- **RESPONSIBLE TO THE CANADIAN CHIEF OF  
DEFENCE STAFF AND THE US SECRETARY OF  
DEFENSE**
- **THREE NORAD REGIONS**
  - **ALASKAN**
  - **CANADIAN**
  - **CONTINENTAL UNITED STATES**

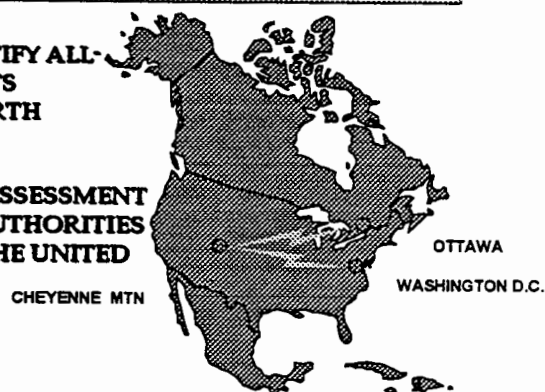


## NORAD REGIONS



## PROVIDE WARNING

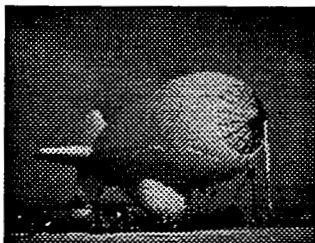
- DETECT AND IDENTIFY ALL AEROSPACE OBJECTS APPROACHING NORTH AMERICA
- PROVIDE THREAT ASSESSMENT TO RESPONSIBLE AUTHORITIES OF CANADA AND THE UNITED STATES



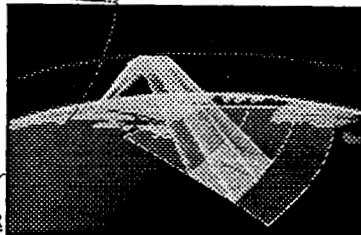
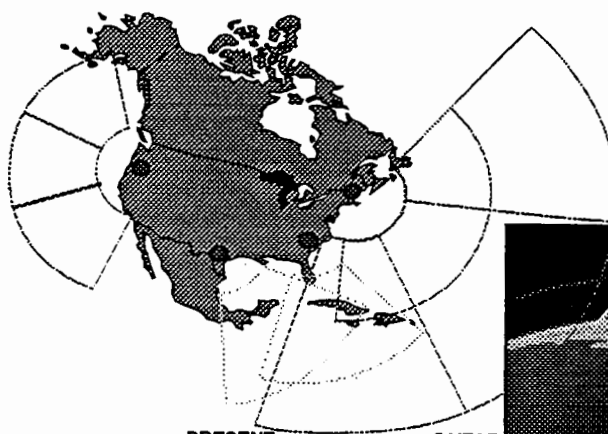


## AIR SOVEREIGNTY

- ♦ NATION'S RIGHT TO EXERCISE CONTROL OVER ITS AIRSPACE
- ♦ DETECT, IDENTIFY, INTERCEPT
- ♦ ENDURING MISSION



## OTH-B AND ROTH-R



2 ROTH-R (VA/TX)  
1 ROTH-R (PR)  
2 OTH-B

**PRESENT**  
MANNED  
INSTALLATION/IOC FY99  
WARM STORAGE  
CARETAKER MANNING

**5 YEAR**  
MANNED  
MANNED  
COLD STORAGE (FY98)  
CARETAKER MANNING



## **JOINT SURVEILANCE SYSYEM (JSS)**

### **JSS IS BACKBONE OF AIR DEFENSE SYSTEM**

- **PROVIDES COMPREHENSIVE  
RADAR AND COMM NET**
- **UNIQUE MISSION DICTATES  
REQUIREMENTS**



## **HQ NORAD**

### **TODAY'S THREAT TO U.S.**

- **SMALL, LOW-LEVEL, EVASIVE  
AIRCRAFT**
  - **ALCM/SLCM**
  - **DRUG SMUGGLERS**
- **NON-SQUAWK, PRIMARY  
RADAR TARGETS**



## **HQ NORAD**

- **NORAD HAS EVOLVED TO MEET TODAY'S CHALLENGES THROUGH JOINT AND COMBINED COOPERATION AND FLEXIBLE PLANNING**
- **TO STAY RELEVANT NORAD MUST MEET THE FUTURE AEROSPACE THREATS TO NORTH AMERICA**
- **BOTH FAA AND DOD MISSIONS MUST BE ACCOMPLISHED**



## **HQ NORAD**

### **■ CONCLUSION**

- **JSS CREATED FOR EFFECTIVE USE OF NATIONAL ASSETS**
- **JRPG HAS BEEN SUCCESSFUL**
- **JSS MUST REMAIN VITAL LINK IN AIR DEFENSE SHIELD**





## **HQ NORAD**

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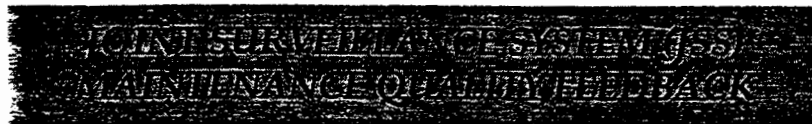


## **HQ NORAD**

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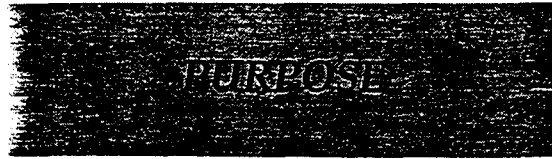




**Major Robert W. Kaelin**  
**1 AF/SCM**  
**November 1996**

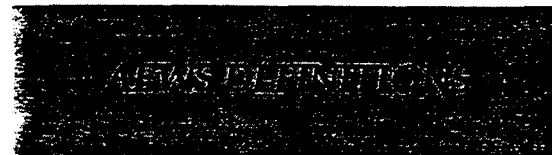


- ☆ **PURPOSE**
- ☆ **STANDARDS AND METRICS**
- ☆ **JOINT TECHNICAL INSPECTION (JTI) PROGRAM**
- ☆ **JTI RESULTS**
- ☆ **JTI TASK FORCE ISSUES**
- ☆ **USAF CONCERNS**
- ☆ **SUMMARY**



☆ *Provide the Joint Radar Planning Group quality feedback on FAA maintenance performed at JSS Long Range Radar Sites from a First Air Force Mission Systems (SCM) perspective*

- ◆ *Examine search radar availability rates for the entire JSS using Atmospheric Early Warning System (AEWS) standards and metrics*
- ◆ *Review results of JTIs performed over the past year with special emphasis placed on FAA maintenance of USAF owned equipment*



☆ **Operational Availability (A sub O):**

- ◆ *Shows the percent of time the EQUIPMENT END ITEM is ready to support operational requirements.*

☆ **Equipment Reliability (E sub R):**

- ◆ *Shows the actual reliability of the EQUIPMENT END ITEM; an indicator of how well the equipment is holding up.*

☆ **Possessed Hours:**

- ◆ *Total number of hours during a given month an item of equipment was possessed by an organization Equal to 24 hours a day multiplied by the number of days in a month that the equipment was possessed by an organization.*

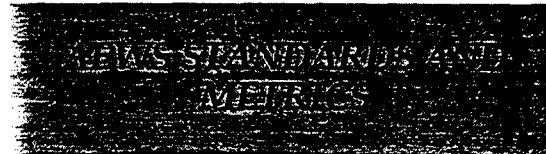


★ Formulas:

- ◆ *A sub O = Total possessed hours minus all RED downtime (scheduled and unscheduled), divided by possessed hours.*
- ◆ *E sub R = Possessed hours minus unscheduled RED hours, divided by possessed hours.*

★ JSS LRR Standards

- ◆ *A sub O = 90%*
- ◆ *E sub R = 95%*
- ∨ *Ref: AEWS Integrated System Master Plan and 1AFI 21-1, Equipment Maintenance Status and Inventory Reporting*

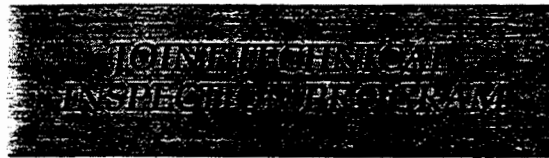


<u>FY 96 Average</u>	<u>A sub O</u>	<u>E sub R</u>
★ SE AD SECTOR	99.41%	99.72%
★ W AD SECTOR	98.31%	99.67%
★ NE AD SECTOR	99.30%	99.90%

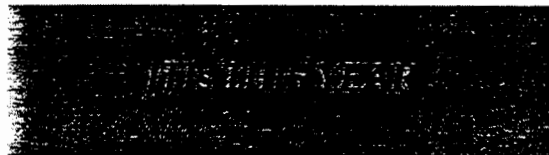
◆ *NOTE: Data extracted from USAF AD Sector Monthly Maintenance Summaries*

★ *From a First Air Force Mission System perspective, JSS LRR Operational Availability and Equipment Reliability Rates are well above AEWS Standards.*

4/7/97



- ☆ *Quality Assurance inspections of JSS Radar sites*
- ☆ *Performed by FAA Region and USAF Air Defense Sector Quality Assurance Inspectors*
- ☆ *Inspections governed by FAA order 6040.6E*
- ☆ *Reports are "snapshots"*
- ☆ *FAA prepares the report with USAF input*

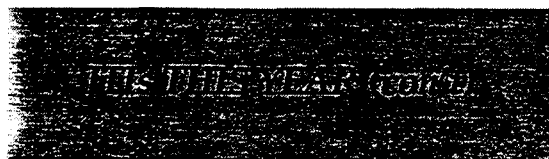


**NORTHEAST AIR DEFENSE SECTOR**

SITE	FAA REGION
*RIVERHEAD, NY (J-52)	EASTERN
NASHWAULK, MN (J-60)	GREAT LAKES

**SOUTHEAST AIR DEFENSE SECTOR**

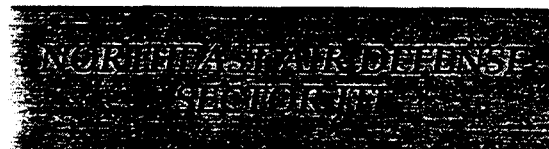
SITE	FAA REGION
JEDBURG, SC (J-03)	SOUTHERN
WHITEHOUSE, FL, (J-04)	SOUTHERN
TYNDALL, FL (J-11)	SOUTHERN



### WESTERN AIR DEFENSE SECTOR

<u>SITE</u>	<u>FAA REGION</u>
*OILTON, TX (J-16)	SOUTHWEST
SONORA, TX (J-25)	SOUTHWEST
*SILVER CITY, NM (J-28)	SOUTHWEST
*MT. LAGUNA, CA (J-30)	WESTERN PACIFIC
*KALISPELL, MT (J-78)	NORTHWEST MOUNTAIN

*\* JTI final report not received; sector provided pertinent data*



<u>SITE</u>	<u>FAA REGION</u>
-------------	-------------------

RIVERHEAD, NY (J-52)	EASTERN
----------------------	---------

- ◆ USAF radios are well maintained with only one out of tolerance condition noted.
- ◆ T.O.s were in good shape.

NASHWAULK, MN (J-60)	GREAT LAKES
----------------------	-------------

- ◆ Only USAF radios were inspected during JTI
- ◆ 10 of the 72 USAF radio key parameters were out of tolerance (14%)
- ◆ T.O.s were overall satisfactory; several changes missing



SITE



FAA REGION



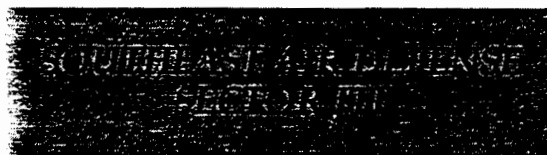
JEDBURG, SC (J-03)

SOUTHERN

- ◆ ARSR and CD not inspected pending ARSR-4 installation.
- ◆ All inspected facilities were very well maintained; no out of tolerance conditions discovered during the inspection of USAF equipment.
- ◆ USAF inspectors commended the excellent training program and solid maintenance practices at the site.



SITE



FAA REGION



WHITEHOUSE, FL (J-04)

SOUTHERN

- ◆ All facilities were very well maintained
- ◆ No out of tolerance conditions were discovered on the USAF equipment.
- ◆ T.O.s were in good condition.
- ◆ Common Digitizer not inspected; not released by ARTCC
- ◆ USAF inspectors commended the excellent technical training program at the site.

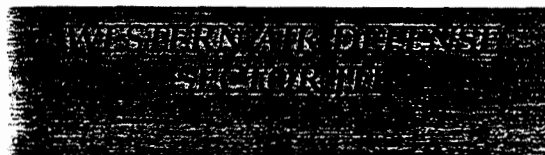


SITEFAA REGION

TYNDALL AFB, FL (J-11)

SOUTHERN

- ◆ *All facilities were very well maintained.*
- ◆ *No out of tolerance conditions were discovered on USAF equipment. NOTE: GAG radios are maintained by the 325 Comm Squadron TAFB*
- ◆ *USAF inspectors commended the excellent training program and solid maintenance practices at the site*

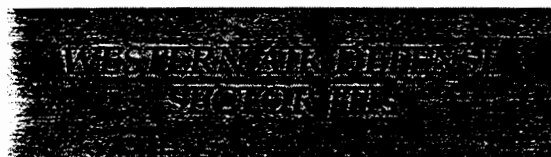
SITEFAA REGION

OILTON, TX (J-16)

SOUTHWEST

- ◆ *USAF radio JTI conducted in conjunction with ARSR-4 Joint Acceptance Inspection (JAI)*
- ◆ *31 of the 96 USAF radio key parameters were out of tolerance (32%); 16 CDI*
- ◆ *Problems were identified with the AN/GRC-171 multi-channel radio that required replacement of transmitter and receiver subassemblies to correct*
- ◆ *USAF inspector noted the radio equipment was dirty*
- ◆ *Several T.O.s were missing or were missing latest changes*

4/7/97



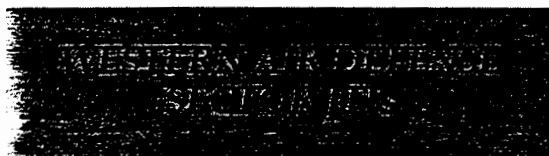
SITE

FAA REGION

SONORA, TX (J-25)

SOUTHWEST

- ◆ *Data tie site; no USAF equipment inspected*
- ◆ *Inspected FAA facilities were in excellent condition*



SITE

FAA REGION

SILVER CITY, NM (J-28)

SOUTHWEST

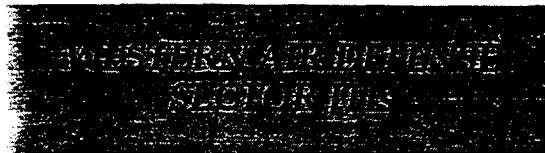
- ◆ *24 of the 84 USAF radio key parameters were out of tolerance (28%); 10 CDI*
- ◆ *Radio equipment was very dirty*
- ◆ *Supplements and changes were missing from several T.O.s*
- ◆ *Six T.O.s were missing*

SITEFAA REGION

MT. LAGUNA, CA (J-30)

WESTERN PACIFIC

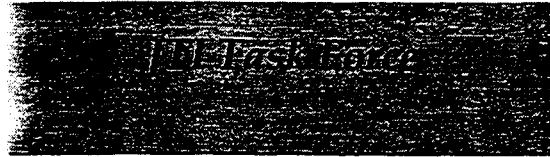
- ◆ *USAF radio JTI conducted in conjunction with ARSR-4 JAI*
- ◆ *28 of the 122 USAF radio key parameters were out of tolerance (23%); 27 CDI*
- ◆ *Radio equipment was very dirty; intake filters were caked with dust, lint, and debris*
- ◆ *Most radios were missing hardware*
- ◆ *Several pieces of radio test equipment were uncalibrated*
- ◆ *Current supplements and changes were missing from many T.O.s*

SITEFAA REGION

KALISPELL, MT (J-78)

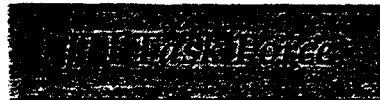
NORTHWEST MOUNTAIN

- ◆ *Inspected FAA facilities were in excellent condition*
- ◆ *28 of the 72 USAF radio key parameters were out of tolerance (39%); 18 CDI*
- ◆ *Radio equipment was very clean*
- ◆ *5 required T.O.s missing*



## ☆ PURPOSE AND SCOPE

- ◆ *Review proposed changes in the FAA technical inspection program as it transitions to the National Airspace System (NAS) Technical Evaluation Program (NASTEP)*
- ◆ *Identify procedures or areas of agreement for conducting JTIs within the NASTEP*



- ☆ *Last meeting held in San Antonio, TX (Sep 96)*
  - ◆ *Developed JTI coordination flowchart*
  - ◆ *Finalized Key Performance Parameter Count and USAF Radio Checklists*
  - ◆ *Recommended administrative changes to FAA Order 6040.6E Appendix 2 (i.e. semi-annual follow-up report on open action items)*
  - ◆ *Discussed FARR Program implementation as it impacts JTI scheduling*
  - ◆ *Agreed NASTEP software meets user requirements*
- ☆ *Task Force met objectives*



☆ *Timeliness of reports*

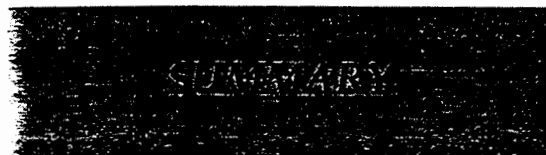
- ◆ *FAA not meeting 60 day suspense in some regions*

☆ *Lack of follow-up*

- ◆ *No positive feedback to USAF*
- ◆ *Negates inspection process*

☆ *Quality of radio maintenance*

- ◆ *High number of deficiencies found at our western sites*



☆ **PURPOSE**

☆ **STANDARDS AND METRICS**

☆ **JOINT TECHNICAL INSPECTION (JTI) PROGRAM**

☆ **JTI RESULTS**

☆ **JTI TASK FORCE ISSUES**

☆ **USAF CONCERNS**









## EXPERTS IN WORKMANSHIP



### ***RADES JSS INVOLVEMENT*** ***(Primarily FARR)***

United States Air Force  
84th Radar Evaluation Squadron  
Mr John E. Jett  
RADES ARSR-4 Program Manager

Nov 96



## ***OVERVIEW***

- Current Scope of RADES Involvement
- Work Accomplished to Date



## ***OVERVIEW***

(continued)

- Upcoming RADES Phase IV's
- Upcoming ARSR-4 Baseline Evaluations
- ARSR-4 Demonstrated Performance
- Pre-baseline Support Requirements
- Miscellaneous JSS Work
- Conclusions (Relative to FARR Involvement)



### ***CURRENT SCOPE of RADES INVOLVEMENT***

- **Jointly Participate In Phase IV Effort**
  - Purpose: Contractor demonstrates that system meets specifications, gov't accepts system
  - One maintenance technician or one technical advisor
  - 7 to 10 days in field
- **Jointly Participate in Baseline Evaluations**
  - Purpose: Equipment check, system optimization, performance assessment. Report used for FAA commissioning, Air Force acceptance, and trend analysis archive
  - 4-person team
  - 3 to 4 weeks in field



### ***WORK ACCOMPLISHED to DATE***

- **Sites With Completed Phase IV Testing**

- Mt Laguna CA	- Slidell LA	- North Truro MA
- Empire MI	- Morales TX*	- Eagle Pass TX*
- Rocksprings TX	- Cross City FL	- Mt Santa Rose Guam
- Makah WA	- Jedburg SC	- Rainbow Ridge CA
- Lake Charles LA	- Finley ND	- Caribou ME
- Tamiami FL	- Watford City ND	- Fort Green FL*
- King Mountain TX	- Oilton TX	- Bootlegger Ridge MT
- Nashwauk MN	- Melbourne FL	- Mica Peak WA
- Oceana VA	- Bucks Harbor ME	- Gibbsboro NJ
- Demming NM	- Salem OR*	
- Cross City FL	- Tyndall FL	

**\* 84 RADES participation complete, Phase IV not complete**

4/7/97



***WORK ACCOMPLISHED to DATE***  
***(CONTINUED)***

• Sites With Completed

Baseline Evaluations:

- |                       |                 |
|-----------------------|-----------------|
| - Tamiami FL          | Mt Laguna CA    |
| - Empire MI           | Lake Charles LA |
| - Makah WA            | Oilton TX       |
| - North Truro MA      | Cross City FL   |
| - Bootlegger Ridge MT | Oceana VA       |
| - Rocksprings TX      | Jedburg SC      |



***WORK ACCOMPLISHED to DATE***  
***(CONTINUED)***

• Sites With Completed

Baseline Evaluations:

- |               |                 |
|---------------|-----------------|
| - Nashwauk MN | Melbourne FL    |
| - Slidell LA  | Watford City ND |
| - Caribou ME  | Bucks Harbor ME |
| - King Mt TX  |                 |



## WORK ACCOMPLISHED TO DATE (CONTINUED)

### • Commissioned Sites:

- Tamiami FL	12 Apr 95
- North Truro MA	20 Jun 96
- Empire MI	27 Jun 96
- Lake Charles LA	2 Jul 96
- Mt Laguna CA	3 Jul 96



## WORK ACCOMPLISHED TO DATE (CONTINUED)

### • Commissioned Sites:

- Oilton TX	26 Aug 96
- Caribou ME	30 Oct 96
- Slidell LA	1 Nov 96
- Oceana VA	4 Nov 96



## UPCOMING PHASE IV's

- |                   |           |                   |           |
|-------------------|-----------|-------------------|-----------|
| • Lakeside MT     | 5 Nov 96  | • Paso Robles CA  | 10 Dec 96 |
| • Ft Fisher NC    | 12 Oct 96 | • Key West FL     | 2 MAR 97  |
| • Mill Valley CA  | 2 Dec 96  | • Vandenburg CA   | 25 Jan 97 |
| • Guantanamo CU   | 2 Jan 97  | • Mt Kaala HI     | 14 Mar 97 |
| • Ajo AZ          | TBD       | • Remsen/Utica NY | 9 Mar 97  |
| • San Clemente CA | 1 Mar 97  | • Riverhead NY    | 2 May 97  |

For coordination and planning purposes, the composite Phase IV effort is broken into two components: 1) pre-Phase IV equipment checkout, and 2) formal Phase IV contractor testing. Due to scheduling constraints, RADES participation is limited to pre-Phase IV equipment checkouts.



## UPCOMING BASELINE EVALUATIONS

- |                    |             |
|--------------------|-------------|
| • King Mountain TX | In-progress |
| • Tyndall FL       | In-Progress |
| • Mica Peak WA     | 19 Nov 96   |
| • Morales TX       | 13 Jan 97   |
| • Ft Green FL      | 21 Jan 97   |
| • Gibbsboro NJ     | 17 Feb 97   |



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| • Morales TX       | 13 Jan 97   |
| • Ft Green FL      | 21 Jan 97   |
| • Gibbsboro NJ     | 17 Feb 97   |

4/7/97



### ***PRE-BASELINE SUPPORT REQUIREMENTS***

- Minimum Of 45 Day Notification
- Data Line Connectivity To SOCC & ARTCC
- ISM RMS PAMRI
- Dual-Channel ATCBI-5 Installed
- Region/AOS-230 Supportability
- Down-Time Requirements Coordinated With SAOC & ARTCC
- Flight support USAF/FAA



### ***MISCELLANEOUS JSS WORK***

SAN PEDRO CA (J-31)

29 Jul - 9 Aug 96

••Special Evaluation of CD-2C Remote Automated Control Interface (RACI) Mod

•Long Range Radar (range) Extension

KENO OR (J-82)

27 - 30 May 96

•Acceptance testing (for subsequent commissioning) of the Mode-S Beacon system operating in the Independent Beacon Interrogator (IBI) mode  
•Performance compared favorably with pre-existing ATCBI-5 System





## **MISCELLANEOUS JSS WORK** **(continued)**

MILL VALLEY

7 Dec 95

- 84 RADES reported concurrence with CD-2C commissioning, acknowledging a "glitch" within the MIG which required occasional reset by site technician (long periods between glitches)
- Forwarded CD-2C CRR checklist to HQ 1AF/DOY



## **CONCLUSIONS**

- Evaluations and baseline coordination's have been, and will remain a joint venture between the USAF and FAA
- Please ensure that pre-baseline support requirements are complete before RADES team arrives
- Systems evaluated to date meet overall expectations



4/7/97

6430.2 CHG 38  
Attachment 80

**JOINT TECHNICAL INSPECTION (JTI) PROGRAM  
ORDER 6040.6E**

**ATTACHMENT 9**





## JOINT TECHNICAL INSPECTION TASK FORCE

- 1995 OBJECTIVES
  - IDENTIFY AREAS OF AGREEMENT ON JTI PROCESS
  - IDENTIFY AREAS FOR IMPROVEMENT AND FUTURE REVIEW
- 1996 OBJECTIVES
  - REVIEW ORDER 6040.63 JTI IMPLEMENTATION
  - ESTABLISH KEY PERFORMANCE PARAMETER COUNT

### JTI TASK FORCE 1995 AGREEMENTS

- RETAIN 3-YEAR CYCLE FOR JTI
- ALL KEY PERFORMANCE PARAMETERS CHECKED DURING JTI
- RETAIN TABLE IN REPORTS AND INCLUDE KEY PERFORMANCE PARAMETERS, DETAILS
- CDIs DOCUMENTED IN REPORTS
- WORKSHEETS RETAINED IN HARD COPY FILE
- CHANGE 30 TO 60 DAY FINAL REPORT

## JTI TASK FORCE 1996 AGREEMENTS:

- NASTEP SOFTWARE WILL BE USED
  - ELIMINATE OLD FORMS
- INCLUDE RADIO CHECKLIST AT JSS
- DEFINE KEY PERFOR.PARA. COUNT
- JTI MAY BE SCHEDULED OFF-CYCLE
  - WORKLOAD CONSIDERATION
- CHANGE 30 TO 60 DAY FINAL REPT.

## POST INSPECTION ACTIVITIES

- FAA INSPECTOR VERIFY ISSUES
- FINAL DRAFT REPORT AND COPY TO  
USAF INSPECTION TEAM LEAD
- USAF INSPECTION TEAM LEADER  
REVIEW WITHIN 15 DAYS TO  
SIGN/RETURN
- FAA INSPECTOR FINALIZE REPORT

## POST-INSPECTION CONT'D

- FAA NASTEP REGIONAL PROGRAM MANAGER (RPM) TO COORDINATE SIGNATURES AND DISTRIBUTION
- DISTRIBUTION WITHIN 60 DAYS TO:
  - JRPG COORDINATORS
  - FAA JRPG
  - USAF AIR DEFENSE JRPG
  - 1ST AIR FORCE/SCM
  - FAA HQ, NASTEP
- FAA RPM UPDATES STATUS

—

## SUMMARY

- 1995 ORDER 6040.6E REVIEWED
- APPENDIX 2 AMENDED TO REFLECT RECOMMENDATIONS
- 1997 JTI TASK FORCE WILL REVIEW IMPLEMENTATION AND REPORTING



# JOINT TECHNICAL INSPECTION PROCESS FLOW CHART

## PRE-INSPECTION ACTIVITIES

**START**

FAA Technical Evaluation Program Manager will contact the USAF Air Defense Sector JRPG coordinator with a proposed annual schedule.

Inspection Date will be finalized NLT 30 days prior to inspection.

FAA site personnel will contact all internal and external customers to coordinate downtime and confirm downtime with Technical Evaluation Program Manager

## IN-AREA JTI ACTIVITIES

FAA inspector prepares a DRAFT report with input from USAF team

Conduct JTI

The JTI team will conduct an entrance briefing.

## POST-INSPECTION ACTIVITIES

The FAA inspector will verify issues and write a final draft and provide a copy to the USAF inspection team leader for coordination within 30 days.

The USAF inspection team leader will review the final draft, provide comments if applicable, sign and returns cover sheet to the FAA within 15 days.

The FAA inspector will finalize the inspection report.

The Regional NASTEP program manager will ensure copies of the final report is provided to the appropriate USAF Air Defense Sector JRPG coordinator and 1st Air Force/SCM within 60 days of JTI completion.

The Regional NASTEP program manager will coordinate signatures and distribution of the final report.

The Regional NASTEP program manager will ensure semi-annual updates on open issues are provided to the USAF Air Defense Sector JRPG coordinator.

**END**

4/7/97

## Key Parameter Count JTI Equipment

Equipment	Number of Keys	Remarks
ARSR-1/2 w/SSR/DMTI	Total for Two Channels = 18	
ARSR-3	Total for Two Channels = 42	
ARSR-4	7	
ATCBI-5	Total for Two Channels = 38	
ATCBI-5 w/ISLS	Total for Two Channels = 40	
AN/FYQ-49	18	
CD-2C	Total for Two Channels = 9	3 keys are common to both channels
AN/GRC-171	21	7 per unit
AN/GRT-21/22	5	Per unit
AN/GRT-23/24	4	Per unit
AN/GRC-171B(V)4	6	Per unit
CODAN	1	Per channel

4/7/97

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Equipment	Number of Keys	Remarks
ARSR-1/2 w/SSR/DMTI	Total for Two Channels = 18	
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ATCBI-5 w/ISLS	Total for Two Channels = 40	
AN/FYQ-49	18	
CD-2C	Total for Two Channels = 9	3 keys are common to both channels
AN/GRC-171	21	7 per unit
AN/GRT-21/22	5	Per unit
AN/GRT-23/24	4	Per unit
AN/GRC-171B(V)4	6	Per unit
CODAN	1	Per channel



## **CI-13 JSS Program Status**

**19-21 Nov 96**

### **Outline of Presentation**

- **CI-13 Program Contacts**
- **CI-13 Overview**
- **Contract Status**
- **Design Status**
- **Training Status**
- **Remote RCU Ops/Maintenance**
- **Summary**

19-21 Nov

## CI-13 Program Office Contacts

- FARR Program Manager
  - Mr. Don Kinney
    - ESC/TNF, FAA Washington D.C.
    - Comm (202) 267- 8485/5329, FAX x5480
- Project Manager
  - Lt. Dan Radulski
    - ESC/TNN, Comm (617) 377- 7226
    - DSN 478-7226, FAX x9567 radulskid@hanscom.af.mil

19-21 Nov

## CI-13 Program Office Contacts

- Integration Manager
  - Lt. Jim Heigle
    - ESC/TNN, Comm (617) 377- 9518
    - DSN 478- 9518, FAX x9567 heiglej@hanscom.af.mil
- Integration Engineer
  - Mr. John P. Treacy
    - ESC/TNF (Mei Technology) Comm (617) 377- 4626
    - DSN 478 - 4626, FAX x9567 treacyjo@hanscom.af.mil
- Logistics Manager
  - Mr. Howard A. Beaulieu, Mr. Charlie Hayes
    - ESC/TNN, Comm (617) 377-7292
    - DSN 478-7292, FAX x9567 beaulieuh@hanscom.af.mil

19-21 Nov

### Other Key Organizations/Participants

- Engineering Installation
  - Requirements
    - 38 EIG/DRC, J. Geldbaugh, DSN 884- 9322
  - Installation
    - 38 EIW/EIC, Tammy Vu, DSN 884- 9314
- Depot Support/Maintenance/System Staging.
  - Program Management
    - SA- ALC/LTMCD, Jim Mills, DSN 969- 2751
  - Equipment Specialist
    - SA - ALC/LTMCD, John Crouch, DSN 969 - 2751
- System Engineering
  - Mitre Corporation, Mr. Joe Levy, Mr. Bob Hansen
    - Telephone (617) 271- 2631, 5451

19-21 Nov

### Other Key Organizations/Participants

- CONUS Comm Program Management
  - 1AF/SCX, Capt. Tim Blount, DSN 523 - 3768
- CONUS Operational Concept
  - 1AF/DOY, SMSgt Bob Silverio, DSN 523 - 3786
- Training
  - Program Management and Planning
    - 342 TTS/TTOP, Mr. Juan Zavala, DSN 473-2930
  - Courseware Preparation
    - 342 TTS/TTSCD , Ms. Elvira Almarez, DSN 473-2814
- Maintenance Concept
  - Development and Preparation
    - ACC/SCCJ, SMSgt Mark Hanson, DSN 574 - 4477

19-21 Nov

### Other Key Organizations/Participants

- Engineering Installation
  - Requirements
    - 38 EIG/DRC, J. Geldbaugh, DSN 884- 9322
  - Installation
    - 38 EIW/EIC, Tammy Vu, DSN 884- 9314
- Depot Support/Maintenance/System Staging.
  - Program Management
    - SA- ALC/LTMCD, Jim Mills, DSN 969- 2751
  - Equipment Specialist
    - SA - ALC/LTMCD, John Crouch, DSN 969 - 2751
- System Engineering
  - Mitre Corporation, Mr. Joe Levy, Mr. Bob Hansen
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19-21 Nov

### Other Key Organizations/Participants

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- Maintenance Concept
  - Development and Preparation
    - ACC/SCCJ, SMSgt Mark Hanson, DSN 574 - 4477

19-21 Nov



## Remote Control Unit(RCU) Function

- Secure transfer of the Key from the MCU to a Variety of ECUs
- Traditional Key Management
- Simple Set-up and Maintenance
  - located at ARSR-4 Radars Sites, GATR Sites, and the SAOCs
  - initialized, Rekeyed and Field Maintained by FAA personnel

19-21 Nov

## CI-13 Contract Status

- Summary of NSA/Motorola Brief 17 Sep 96
  - Finished System Assessment
    - extensive AF participation
    - potential field problems
    - user friendly system
    - entering H/W qualification
  - Final Design Review completed
    - System Assessment Revisitation
  - Risk Assessment
    - Technical risk medium
    - Schedule risk medium

19-21 Nov

## **CI-13 Design Updates**

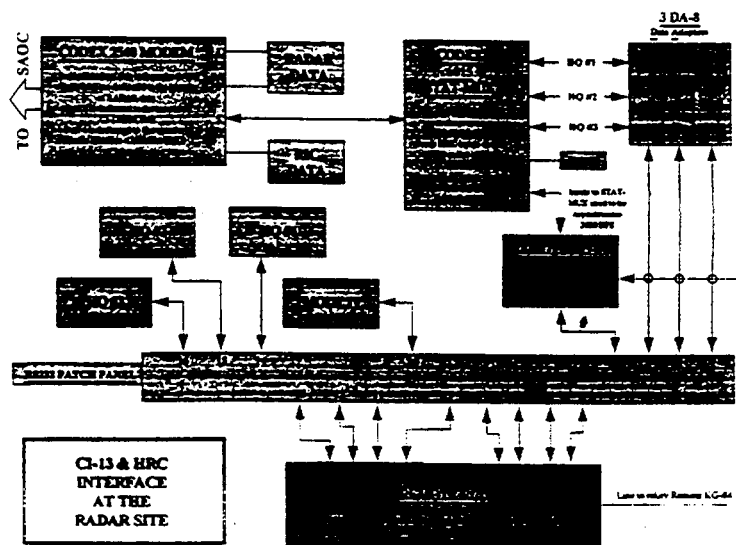
- **Western Telemetric Inc. Code Activated Switch (CAS)**
  - **Replaces the Tellabs Xplexer (Sys Assessment Result)**
    - **Co-located and interconnected to the MCU**
    - **Connects up to 64 Ports with high speed switching**
    - **ASCII Code Activation**
- **Remote Radar Maintenance Terminal**
  - **Commercial Laptop**
    - **CD ROM Drive**
- **KEK Rollover- Redesign approved by NSA Doctrine**
  - **ECP to correct in process**

19-21 Nov

## **JSS Planning Status**

- **JSS Installation Schedule is in planning stages**
  - **Plan based on installing CI-13 at 3 SAOCs, 8 GATR and Radio only Sites, and 30 FAA Radar Sites**
  - **38 Sites are divided into Three Sectors**
  - **Plan to Stage Installs at SA-ALC, San Antonio Texas**
  - **Initial install will include a representative set of radar sites**
    - **Purpose is to validate integration design before full integration into SAOCs and JSS sites**
  - **38th EIW estimates installing 4 sites per month**
  - **GATR and Radio-only Sites will be done last**

19-21 Nov



19-21 Nov

## RCU Ops/Maintenance Overview

### • Operations

- Loading of KG-84/RCU Key Material
  - Confidential
  - Handled through current channels (like KIR-1C)

### • Maintenance

- Equipment
  - KG-84 - remove and replace at box level
  - RCU - remove and replace at circuit card level
- Maintenance terminal - for diagnostics
- Minimal soldering requirements

### • Preventative Maintenance

- change/clean external filters
- remove/replace 9 volt battery

19-21 Nov

## Training Requirement

- JSS
  - SAOC Requirements (AF)
    - Operator Training
    - System Administration
    - Field Maintenance
  - Remote Radar Requirements (FAA)
    - Limited Operator/Field Maintenance Training
    - Accomplished during installation

19-21 Nov

## Training Plans

- Training Planning Meeting.....28 Oct 96
  - AETC will develop paper based (STP) training materials based on Motorola provided courseware
  - ACC/1AF will use the STP's to train FAA technicians during site installation
  - FAA involvement with AETC (STP development) is necessary
  - Future goal is to transfer to CBI packages from the STPs for attrition training

19-21 Nov

**Training Allocation, 6 Slots**

• Jan/Feb (6)	<u>Sys Admin</u>	<u>Operator</u>	<u>Field Main</u>	<u>Depot Main</u>
- SA-ALC	1	1	1	1
- AETC	2	2	2	2
- 38EIW	1	1	1	1
- Hughes	2	2	2	2
- Total	6	6	6	6

19-21 Nov

**Training Allocation, 10 Slots**

• Mar/Apr (10)	<u>Sys Admin</u>	<u>Operator</u>	<u>Field Main</u>	<u>Depot Main</u>
- SA-ALC	3	3	3	3
- 932nd	2	2	2	0
- 1AF	6	6	6	0
- FAA	0	0	0	0
- AETC	1	1	1	1
- 38EIW	2	2	2	0
- Total	14	14	14	4

19-21 Nov

**Training Allocation, 6 Slots**

• Jan/Feb (6)	<u>Sys Admin</u>	<u>Operator</u>	<u>Field Main</u>	<u>Depot Main</u>
- SA-ALC	1	1	1	1
- AETC	2	2	2	2
- 38EIW	1	1	1	1
- Hughes	2	2	2	2
- Total	6	6	6	6

19-21 Nov

**Training Allocation, 10 Slots**

• Mar/Apr (10)	<u>Sys Admin</u>	<u>Operator</u>	<u>Field Main</u>	<u>Depot Main</u>
- SA-ALC	3	3	3	3
- 932nd	2	2	2	0
- 1AF	6	6	6	0
- FAA	0	0	0	0
- AETC	1	1	1	1
- 38EIW	2	2	2	0
- Total	14	14	14	4

19-21 Nov

4/7/97

6430.2 CHG 38  
Attachment 80

# **JOINT USE SITE CONFIGURATION**

## **ATTACHMENT 11**





**JOINT USE SITE  
CONFIGURATION  
CONTIGUOUS US  
(AS OF NOV 96)**

**RADAR SITES WITH MODE 4 AND RADIOS**

Oilton	Cross City	Ft Fisher
Salem	Houston/Ellington/Morales	North Truro
Whitehouse	Crescent City/Klamath	Makah
Riverhead/Suffolk	Patrick/Melborne	Ft Lonesome/Ft Green
Tyndall/Panama City*	Bucks Harbor	Oceana**
Paso Robles/Black Mtn	Slidell/New Orleans	Mt Laguna
Mill Valley	Jedburg	Key West
San Clemente Island**	Lake Charles	Tamiami

**NOTES:**

\* Radios maintained by USAF

\*\* Radios maintained by USN

**RADAR SITES WITH RADIOS ONLY - GATR SITES**

Andrews/Odessa	Remsen/Utica	Silver City
Keno/Klamath Falls	Malmstrom /Great Falls	Watford City
Nashwauk	El Paso	Lakeside/Kalispell

**JOINT USE DATA TIE SITES**

The Plains/Wash DC	Phoenix/Humbolt Mtn	Empire
Citronelle/Grand Bay	Dansville	San Pedro
Sonora	Canton/Detroit	Trevose*
Caribou		

**NOTES:**

\* Active Sep 91. Temporary data tie until Gibbsboro changes to the ARSR-4 radar.  
Est Jan 97.

**JOINT USE SITE CONFIGURATIONS  
ALASKA-HAWAII-GUAM  
(AS OF NOV 96)**

**USAF RADAR SITES WITH MODE 4 AND RADIOS**

Barter Island	Fort Yukon	Oliktok
Cape Lisburne	Indian Mountain	Point Barrow
Cape Newenham	King Salmon	Sparrevon
Cape Romanzof	Kotzebue	Tatalina
Cold Bay	Murphy Dome	Tin City
Santa Rosa*	Mt Kaala**	

\* FAA Owned

\*\*FAA Owns Search. Height Finder has been turned off pending installation of the ARSR-4 Radar.

**Note:** Galena will retain limited UHF/VHF radio capability. Point Lay will not retain operational radio capability.

**RADAR SITES WITH HFR, MODE 4 AND RADIOS**

Mt Kokee

**Note:** Height Finder has been turned off pending installation of FPS-117 Radar.

**JOINT USE DATA TIE SITES WITH RADIOS**

Kenai  
St Paul\*  
Shemya Island\*  
Point Lay\*  
\* Beacon only site

**JOINT USE DATA TIE SITES**

Biorka\*  
Middleton Island\*

\*Beacon only site

**JOINT USE SITE CONFIGURATIONS  
ALASKA-HAWAII-GUAM  
(AS OF NOV 96)**

**USAF RADAR SITES WITH MODE 4 AND RADIOS**

Barter Island	Fort Yukon	Oliktok
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Cold Bay	Murphy Dome	Tin City
Santa Rosa*	Mt Kaala**	

\* FAA Owned

\*\*FAA Owns Search. Height Finder has been turned off pending installation of the ARSR-4 Radar.

**Note:** Galena will retain limited UHF/VHF radio capability. Point Lay will not retain operational radio capability.

**RADAR SITES WITH HFR, MODE 4 AND RADIOS**

Mt Kokee

**Note:** Height Finder has been turned off pending installation of FPS-117 Radar.

**JOINT USE DATA TIE SITES WITH RADIOS**

Kenai  
St Paul\*  
Shemya Island\*  
Point Lay\*  
\* Beacon only site

**JOINT USE DATA TIE SITES**

Biorka\*  
Middleton Island\*

\*Beacon only site



## JOINT USE SITE DATA TIES/SERVICES

	A	B	C	D	E	F	G	H
1	LOCATION		SINGLE/MULTI CHANNEL	HAVE QUICK OTHER		FAA	AD/ROCC	OTHER
2	1	Bucks Harbor	9/1	3 HQ		*Boston	NE AD Sector	
3							Canada East Sector	
4	2	Canton/Detroit	0/0			*Cleveland	NE AD Sector	
5	3	Citronelle	0/0			*Houston	SE AD Sector	
6		(Grand Bay)						
7	4	Crescent City	12/1			*Oakland	WA D Sectors	30th Space Wing
8						Seattle		
9	5	Cross City	9/1	3 HQ	1 (UHF-USCS)	*Jacksonville	SE AD Sector	
10						Miami		
11						*Cleveland		
12						Boston		
13	7	El Paso	4/1	2 HQ	1 (UHF-USCS)	*Albuquerque	W AD Sector	AICC
14								
15	8	Empire	0/0			*Minneapolis	NE AD Sector	
16						Chicago		
17	9	Finley	12/1			*Minneapolis	W AD Sector	
18	10	Ft Fisher	9/1	3 HQ	1 (UHF-USCS)	*Washington	SE AD Sector	
19								
20						1 (UHF-NAVY)		
21	11	Ft Lonesome	9/1	3 HQ	1 UHF-USCS)	*Miami	SE AD Sector	CARIBROC
22						2 (VHF-USAF)		
23	12	Houston	7/1	3 HQ	1 (UHF-USCS)	*Houston	SE/WAD Sectors	
24		(Ellington)				2 VHF-USAF)		
25	13	Jedburg	9/1	3 HQ	1 (UHF-USCS)	*Jacksonville	SE AD Sector	FACSFAC
26	14	Key West	9/1	3 HQ	1 (UHF-USCS)	*Miami	SE AD Sector	CARIBROC
27							Navy TARPON and DAICC MARCH AFB	
28	15	Mt Kaala	12/0	10 HQ		*Honolulu	HIROCC	FACSFAC/PMRF
29	16	Mt Kokee	3/3	6 HQ		*Honolulu	HIROCC	FACSFAC/PMRF
30	17	Klamath Falls	4/1			*Seattle	W AD Sector	
31		(Keno)					Canada East Sector	
32	18	Lakeside	7/1			*Salt Lake	W AD Sector	

## JOINT USE SITE DATA TIES/SERVICES

	A	B	C	D	E	F	G	H
33		(Kalispell)						
34	19	Makah	9/2* (NWADS)	3 HQ	2 (UHF)			
35			2/0 (C ROCC)		2 (VHF-USN)	*Seattle	W AD Sector	Whidbey Isl FACSAC
36		*ATCC	*ATCC/Guard and mutil channel shared by 3 agnecies					
37	20	Malmstrom	12/1			Salt Lake	W AD Sector	
38	21	Tamaimi (Richmond)	9/1	3 HQ	2 (VHF-USAF)	Miami	SE AD Sector	CARIBROCC
39	22	Mica Peak	8/1			*Seattle	W AD Sector	Whidbey Isl FACSAC
40								Vancouver Canada
41								ARTCC
42	23	Nashwauk	6/1			*Minneapolis	NE AD Sector	
43	24	Mill Valley	9/1	3 HQ	2 (VHF-USAF)	*Oakland	W AD Sector	30th Space Wing San Diego FACSAC
44	25	Mt Laguna	9/1	3 HQ	1 (UHF-USCS)	*Los Angeles	W AD Sector	DAICC
45					2 (VHF-USAF)			San Diego FACSAC
46	26	Nashwauk	6/1			*Minneapolis	NE AD Sector	
47	27	North Truro	9/1	3 HQ		*Boston, New York, Washington	NE AD Sector	VACAPES FASFAC
48	28	Oceana	9/2 (USN Maintained)	3 HQ	1 (UHF-USCS)	Washington	Washington Ctr NE AD Sector	DAMNEC VACAPES FACSAC
49	29	Odessa	4/1	3 HQ	1 (UHF-USCS)	**Ft Worth Albuquerque	W AD Sector	DAICC
50	30	Oilton	4/1	2 HQ	2 (VHF-USAF)			
51					1 (UHF-USCS)			
52	31	Paso Robles	9/1	3 HQ	1 (UHF-USCS)	*Los Angeles	W AD Sector	30th Space Wing/DAICC San Diego FACSAC
53					2 (VHF-USAF)	*Oakland		R2508 System
54	32	Patrick	9/1	3 HQ	1 (UHF-USCS)	*Miami	SE AD Sector	Jacksonville FACSAC
55						Jacksonville		45 Space Wing
56	33	Phoenix	0/0		2 (UHF-FAA)	Los Angeles		Tucson Arizona
57		(Humboldt)			1 (UHF-USCS)			

Page 115 and 116





4/7/97

6430.2 CHG 38  
Attachment 80

# **TELECOMMUNICATIONS ROOM CONFIGURATION**

## **ATTACHMENT 13**

4/7/97

6430.2 CHG 38  
Attachment 80

# **TELECOMMUNICATIONS ROOM CONFIGURATION**

## **ATTACHMENT 13**

**DOD /FAA JOINT RADAR  
PLANNING GROUP  
1996 FORMAL MEETING  
COMMUNICATIONS SUB-GROUP  
CO-CHAIRMEN**

**MR. ED WORMLEY  
HQ ACC/SCCJ**

WORMLEYE@HQACCSC.LANGLEY.AF.MIL  
DSN 574-4439/ CMCL (757) 764-4439

**MR. SAMPATH KRISHNAN  
HQ FAA/AOP-400**

SAMPATH\_KRISHNAN\_AT\_AOP400\_@MAIL.HQ.FAA.GOV  
(202) 863-7325



**TELECOMMUNICATIONS ROOM  
CONFIGURATION**



- **INSUFFICIENT SPACE AVAILABLE FOR  
UNCONTROLLED CONFIGURATIONS**
- **NEW SITES DESIGNED FOR 105 SQ FT (7'x15')**
  - SUPPORTS INSTALLATION OF 6 - 20" RACKS  
(4 - USAF, 2 - FAA)
  - ADEQUATE WORK SPACE BEHIND/ IN FRONT OF  
RACKS
- **LAYOUT NEEDED FOR ALL SITES**
  - COMPLETED FOR NEW SITES
  - TO BE DEVELOPED FOR EXISTING SITES



## WAIVER OF AISLE SPACE REQUIREMENT



Per ANS 510 Memorandum, October 11, 1995 :

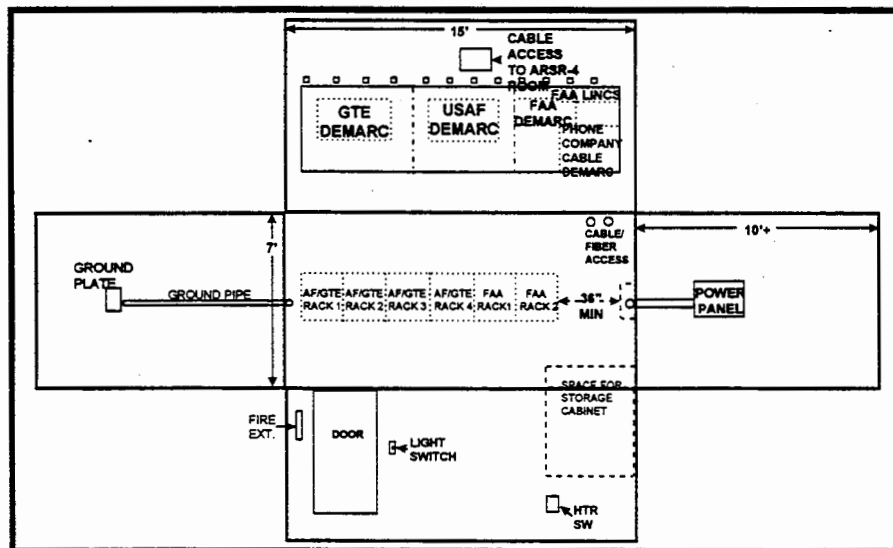
•FAA / ANS 510 (INDUSTRIAL HYGIENIST, ENVIRONMENTAL  
COMPLIANCE, AND EMPLOYEE SAFETY TEAM) RULING:

- SINCE ALL WIRING IN RACKS AND CABINETS IS  
INSULATED, 36" AISLE SPACE NOT REQUIRED
- 30" IS SUFFICIENT

3



## ARSR-4 TELECOMMUNICATIONS ROOM PREFERRED STANDARD LAYOUT





## **CONFIGURATION EXISTING SITES**



- SPACE AVAILABLE VARIES
- PLAN NEEDED FOR EACH SITE  
TO ENSURE ALL EQUIP FITS AND  
WORK SPACE IS ADEQUATE
- SOME SITES WILL NEED ADDED SPACE  
CONSTRUCTED TO MEET REQUIREMENTS

5



## **FIBER OPTIC / MICROWAVE INSTALLATION**



- SOME SITES NOT ACCESSIBLE BY CABLE;  
MICROWAVE OR SATELLITE WILL BE REQUIRED
- TELEPHONE COMPANIES REPLACING CABLE  
WITH FIBER
- FIBER, MICROWAVE AND SATELLITE REQUIRE  
ADDED TERMINAL EQUIP = SPACE IMPACT  
– FAATSAT AND MW WILL BE SERIOUS CHALLENGES
- NEED TO CONTACT VENDOR TO DETERMINE  
SPACE REQUIREMENTS

6

4/7/97



# ARSR-4 TELECOMMUNICATIONS ROOM CONFIGURATION CHECKLIST



## VISIT:

1. OBTAIN SCHEDULE FOR INSPECTIONS (PII, WalkThru, Etc.) ☐
2. OBTAIN SITE CLEARANCES / GET DIRECTIONS TO SITE ☐
3. VERIFY SITE READY FOR TELCO ROOM LAYOUT ☐
4. DETERMINE TYPE OF TELECOM ACCESS PROVIDED: ☐

## AT SITE:

1. LOCATE CABLE RUN / ACCESS POINT TO TELCO ROOM ☐
2. MATCH BACK WALL TO CABLE ENTRY ☐
3. MEASURE AND RECORD DIMENSIONS/POSITIONS OF:  
INSTALLED EQUIPMENT, RACKS ☐  
CABLE, POWER AND GROUND ACCESS/DUCTS ☐
4. MARK RACK, DEMARC, ETC POSITIONS WITH TAPE ☐
5. DOCUMENT ABOVE WITH "TO SCALE" DRAWING ☐
6. PHOTOGRAPH BACK WALL AND AREAS OF INTEREST  
TO DOCUMENT EQUIPMENT POSITIONS, ETC. ☐
7. PROVIDE DRAWING TO SITE CHIEF ☐  
EXPLAIN LAYOUT, DEMARC POSITIONS, MARKINGS ☐  
DISCUSS/ RESOLVE ISSUES RE: SPACE ALLOCATION ☐  
IDENTIFY SECURITY ISSUES / SOLUTIONS ☐
8. VISIT LOCAL CABLE / TELEPHONE PROVIDER TO  
RESOLVE ANY ISSUES ( COORDINATE VISIT W/ FAA ) ☐

## UPON RETURN:

1. PREPARE DETAILED "TO SCALE" DRAWING IN  
ELECTRONIC FORMAT ☐
2. TRANSMIT DRAWINGS TO AIR DEFENSE SECTORS,  
SITE CHIEF, HQ FAA AND OTHERS AS APPROPRIATE ☐
3. CREATE FILE ON EACH SITE AND ITS ISSUES/STATUS ☐
4. FOLLOW UP TO ENSURE RESOLUTION OF PROBLEMS  
AND CONFLICTS ☐

7



# TELCO ROOM DRAWINGS



- "AS BUILT DRAWINGS DONE FOR EACH  
TELECOMMUNICATIONS ROOM
  - DRAWINGS ARE "TO SCALE" AND SHOW EXACT  
MEASUREMENTS
  - ALL INSTALLED EQUIPMENT AND FIXTURES ARE  
DOCUMENTED
  - SPACE CONFLICTS AND SAFETY CONCERNS  
ARE SHOWN
- DRAWINGS DONE IN VISIO 3.0
  - CAN BE CONVERTED TO POWER POINT
  - CAN BE E-MAILED UPON REQUEST

8



## TELECOMMUNICATIONS PLAN



- DOCUMENT DEVELOPED TO ADDRESS:
  - INTRODUCTION - BACKGROUND / SCOPE
  - TELECOMMUNICATIONS ROOM REQUIREMENTS
  - ROOM IMPLEMENTATION ISSUES
  - KEY ORGANIZATIONS AND PERSONNEL
  - SITES AND IMPLEMENTATION SCHEDULE
  - STANDARD TELCO ROOM CONFIGURATION
  - EQUIPMENT FLOOR PLAN LAYOUTS
- DRAWINGS FOR EACH SITE WILL BE ATTACHED

9



## SUMMARY



- STANDARD LAYOUT FOR NEW FACILITIES
  - BASED ON DESIGN & CONFIGURATION AUDITS
  - OBTAINED 30" CLEARANCE/ WORK SPACE WAIVER
  - SEVERAL SITES HAVE PROBLEMS THAT MUST BE CORRECTED TO PERMIT PROPER INSTALLATION
- ENSURE MAXIMUM UTILIZATION OF FLOOR / WALL SPACE
- MUST ADDRESS EXISTING FACILITIES ON CASE-BY-CASE BASIS
  - SOME WILL NEED MODIFICATION/ADDITIONS
- MICROWAVE / FIBER / FAATSAT TERMINAL SPACE ISSUES MUST BE RESOLVED

10



## TELECOMMUNICATIONS PLAN



- DOCUMENT DEVELOPED TO ADDRESS:

- INTRODUCTION - BACKGROUND / SCOPE
- TELECOMMUNICATIONS ROOM REQUIREMENTS
- ROOM IMPLEMENTATION ISSUES
- KEY ORGANIZATIONS AND PERSONNEL
- SITES AND IMPLEMENTATION SCHEDULE
- STANDARD TELCO ROOM CONFIGURATION
- EQUIPMENT FLOOR PLAN LAYOUTS

- DRAWINGS FOR EACH SITE WILL BE ATTACHED

9



## SUMMARY



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10



4/7/97

6430.2 CHG 38  
Attachment 80

## **SECURITY STANDARDS FOR ARSR-4 SITES**

### **ATTACHMENT 14**



4/7/97



U.S. Department  
of Transportation  
**Federal Aviation  
Administration**

6430.2 CHG 38  
Attachment 80

# Memorandum

**Subject:** ACTION: Reduced Watch Criteria for ARSR-4

**Date:** AUG 5 1996

**From:** Manager, FAA Security Division, ACP-300  
Manager, Internal Security Division, ACO-400

**Reply to** Spence  
**Attn. of:** 202-267-8286  
FAX:267-5359

**To:** Managers, Civil Aviation Security Divisions, -700's  
Manager, William J. Hughes Technical Center, Civil Aviation  
Security Staff, ACT-8  
FAA Co-Chairman, Joint Radar Planning Group (JRPg), AFR-304

1. References:

a. ARSR 4 Program Office Memorandum subject: Physical Security Design Criteria for FAA/Air Force Radar Replacement (FARR) Program, dated July 19, 1989.

b. Document, undated, subject: Ground Rules for Reduced Watch at Selected Joint Use Sites, Protective Criteria.

c. Memorandum, from ACP-300 and ACO-400, to Managers, Civil Aviation Security Divisions, -700's, Manager, William J. Hughes Technical Center, Civil Aviation Security Staff, ACT-8, FAA Co-Chairman Joint Radar Planning Group (JRPg) subject: ARSR-4 Physical Security, dated July 18, 1996.

2. In order to dispel any confusion concerning the security procedures required for ARSR 4 sites vis-a-vis procedures required currently for other Joint Surveillance System (JSS) locations, the following guidance is effective immediately: "The security ground rules for reduced watch that are currently in effect for ARSR 3 and older JSS sites may be employed at ARSR 4 sites for so long as the ARSR 4 sites are operated at reduced watch. Reduced watch is defined in reference 1.c., above as meaning that FAA personnel are assigned on-site for less than 24 hours a day and less than 7-days a week." The term "assigned on-site" for the purpose of JSS/ARSR reduced watch security procedures means that: "An FAA employee is required to be physically present at the specific JSS/ARSR location not less than one time each week."

3. Prior to the implementation of any change that results in an ARSR 4 facility staffing becoming less than what is defined above as reduced watch the facility shall meet all prescribed ARSR 4 requirements. For purposes of physical security "JSS/ARSR sites", shall be understood to include all buildings, structures, and ancillary equipment that are located within the perimeter fence of each location.

David C. McFadden

Thomas D. Ryan

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(Public availability to be determined under 5 USC 552)







ATTACHMENT  
JRPG ARSR 4 SITE PHYSICAL SECURITY STANDARDS  
REVISION

---

SECURITY STANDARDS FOR ARSR 4 SITES

---

1. GENERAL

This attachment contains changes, revisions, and additions to the Physical Security Design Criteria for ARSR 4 Sites, dated May 10, 1989. The original document remains in effect with the exception of the areas noted below. The additions, changes, and definitions in this document are effective immediately and are applicable under all staffing conditions. Original design standards should be modified to reflect the changes in this attachment. These revisions and additions will be incorporated into the next revision of FAA Order 1600.6C.

2. REFERENCES:

a. The basic reference order for physical security standards for all FAA facilities is FAA Order 1600.6C, Physical Security Management Program (PSMP), dated April 1993.

b. Physical Security Design Criteria for ARSR 4 Sites, dated May 1989.

DEFINITIONS, CHANGES, AND ADDITIONS

3. STAFFING DEFINITIONS.

a. Staffed facility means that FAA personnel are assigned on-site 24-hours a day, 7-days a week.

b. Reduced watch means that FAA personnel are assigned on-site for less than 24-hours a day and less than 7-days a week.

c. Unstaffed means that the facility does not have FAA employees assigned on-site. Employees are assigned responsibility for the facility but they normally make on-site visits on an "as required" or "as directed" basis.

4. TELEPHONE LINE SUPERVISION.

Delete reference b paragraph A.2.d, Section II Area Security, "Class A line supervision."

5. TELCO ROOM.

Delete requirement in reference b paragraph B.1.b.(4) for a "second lock and additional heavy duty hasp secured by a Best padlock," on the exterior door to the TELCO Room.

6. PERIMETER FENCE.

Revise reference b Section I, paragraph A, to read as follows:

" In accordance with requirements specified in Appendix 5, reference a., perimeter fence construction at ARSR 4 sites shall provide for a taut reinforcing wire a minimum of 9-gauge installed and interwoven with or affixed with 12-gauge fabric ties spaced 12-inches (0.304 meter) apart along the top and bottom of the fence fabric. Use of a top rail is not authorized for new fence construction. This requirement does not apply to perimeter chain link fences which are already constructed and have used a top rail instead of a taut wire until such time as the fence is replaced."

**ATTACHMENT**  
**JRPG ARSR 4 SITE PHYSICAL SECURITY STANDARDS**  
**REVISION**

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**7. EXTERIOR DOORS.**

Change reference b, page 3, paragraph B(3) to read as follows:

“ In accordance with requirements specified in Appendix 7, paragraphs 2 and 3, reference a., hinges shall be located on the inside of the door, or otherwise installed so as to be inaccessible from the exterior side when the door is closed. If this is not possible, the hinges shall be installed so they cannot be removed by taking out the screws or so they will withstand the use of a chisel or similar cutting device. The hinge pins in exterior mounted hinges shall be welded, flanged, or otherwise modified in a manner approved by the Servicing Security Element (SSE) to prevent their removal.”

**8. LOCKING DEVICES.**

Modify reference b, page 3, paragraph B(11) to read as follows:

“The principal access door to the facility shall be provided with a Group 1R, built-in, three position, dial type, changeable combination padlock with deadbolt extension and reinforced strike. (Reference a., Appendix 12, Section 3, paragraph 10.h.). The lock selected and the installation design shall be approved by the SSE before installation.”

**9. OTHER DOORS.**

Modify reference b, page 4, paragraph b(3) to read as follows:

“The doors will be fitted with heavy-duty dead bolts having a minimum throw of the bolt of one inch into a reinforced strike.”

**10. RADAR DOME DOORS.**

Modify reference b, page 5, paragraph 8, to read as follows:

“Locking devices that incorporate unique life-safety features such as the “Yale” safety locks on the doors to the radar dome are excluded from the general requirement for utilization of Best locking devices.”



4/7/97

6430.2 CHG 38  
Attachment 80

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4/7/97

6430.2 CHG 38  
Attachment 80

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